

SAINUL ABID M

Senior Data Scientist

Result-oriented professional targeting challenging opportunities in **Data Science** to apply Generative AI, **machine learning algorithms, feature engineering, and statistical modeling** for driving data-driven insights and decision-making in organizations.

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PROFILE SUMMARY

- ❖ **Data Scientist** offering **nearly 8 years** of experience with a strong foundation in SQL, R, Python, MATLAB, and AWS, and a proven track record of success in the retail industry and IT Help desk automation
- ❖ Currently Working as CTO of iluzia labs, Calicut
- ❖ Worked as a Senior Data Scientist at Photon for a pharma industry named Medimpact for Creating an intelligent IT help desk, Smart IT Docs Agent and PAGL Guideline Projects
- ❖ Created schedulers for sending smart email reports of the chat agents on daily basis, created the data flow of past jira tickets to mongo db, then to chroma db, created NLP Models to decide the automatic jira case generation based on the nature of the conversation
- ❖ Created the microservice architecture for the IT Help Desk, IT SmartDocs and PAGL Guideline projects in kubernetes and flask api framework and their successful integ
- ❖ Worked as a **Data Scientist** with Pristine AI; designing and developing dynamic user interfaces that utilize user behaviour analysis to prompt actions and save time, as well as integrating Knowledge Graphs with IUX
- ❖ **Skilled in machine learning algorithms**, feature engineering, statistical modeling, intelligent UX design, and cloud computing, which contributed to the development and maintenance of machine learning models for predicting price and promotion points
- ❖ Achieved significant improvements in **sales, margin, and volume by successfully implementing a new Liquid Neural Network** for model building, which resulted in enhanced accuracy and performance
- ❖ Developed **long-term competitor strategy recommendation service** while providing valuable insights for businesses to stay ahead in the market
- ❖ Mined & analysed data from multiple sources to drive optimization & improvement and delivered data-driven solutions to business challenges
- ❖ Excellence in **continuously evolving technology**, communicating data findings to both technology leaders and business managers to **help the organization meet business challenges**
- ❖ Knowledge of dealing with **chronically difficult problems**, using superior **interpersonal and communication skills** to carefully discuss and **solve problems**



CORE COMPETENCIES

- | | | |
|---|--|---|
|  Data Science & Analytics |  Machine Learning & Artificial Intelligence |  Gen AI Agent Application Creation |
|  Statistical Analysis/ Predictive Modelling |  Designing & Implementation |  Project Execution & Management |
|  Process Enhancements |  Requirement Gathering & Analysis |  Client & Stakeholder Management |

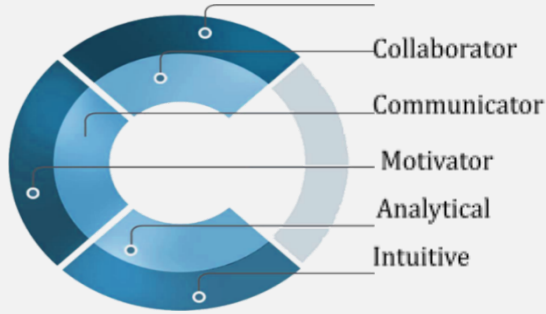







SOFT SKILLS

Innovator



EDUCATION



-  **PG Diploma in Applied Statistics from IGNOU (Pursuing)**
-  **MSc (Cognitive Science)** from Centre of Behavioral and Cognitive Science, Allahabad in 2022
-  **CCPD (Global Leadership and Sustainable Urbanization)** from University College of Cork, Ireland in 2021
-  **Advanced Diploma (Cloud Computing)** from NIELIT, Calicut in 2017
-  **B.Tech (Electrical and Electronics Engineering)** from Govt. Engineering College, Thrissur in 2013

TECHNICAL SKILLS

- ❖ SQL (Oracle), R (data.table, dplyr, tidyverse, ggplot2, tm), Python (Pandas, NumPy, SciPy, Matplotlib, scikit-learn, PySpark, PyTorch, TensorFlow)
- ❖ RAG, Multimodal RAG, Agentic Application Creation
- ❖ MATLAB, Power BI, DAX, AWS (EC2, S3, Sumerian, Polly, Lex, SageMaker)
- ❖ Azure Devops, Azure Functions, Azure Cosmos DB, bitbucket, Argocd, Jenkins
- ❖ Gen AI framework in LangChain, Llama Index, Autogen, Chroma DB, Chainlit, Streamlit, FAISS DB, Flask, SQLAlchemy, Redis, Open Clow
- ❖ AWS (EC2, S3, Sumerian, Polly, Lex, SageMaker, lambda service), Google Gen ai lab(Google Vertex AI, Model Garden, Docker, Kubernetes, Azure Cosmos DB)
- ❖ Working with Docker, Kubernetes, Microservice api creation, Intelligent Agent router Creation, RAG Application Creation
- ❖ Google Cloud AI Services, Vertex AI, Cloud Run, Big Query, Vercel
- ❖ **Large Language Models:** OpenAI GPT APIs , Ollama, Mistral, Mixtral, Llama, Claude,Gemini, OpenAI, Azure OpenAI
- ❖ **Machine Learning Algorithms** (CatBoost, LightGBM, XGBoost, AdaBoost, Random Forest, SVM, Linear Regression, Logistic Regression, Polynomial Regression, Gaussian Regression, PCA, ARIMA, LSTM, RNN, CT-RNN, Liquid Neural Network LNN)
- ❖ Feature Engineering, Time series data augmentation, Ensemble Learning, Statistical Models (MLE, ARIMA, Apriori)
- ❖ Microsoft 365, Microsoft Power Apps, Power Automate, Power BI integrations

WORK EXPERIENCE

Director: AyaTech – Calicut || March'26– Till now

Key Result Areas:

- ❖ Started AyaTech Technical School LLP
- ❖ Developed Fully Automated ERP for AyaTech
- ❖ Developing AI-Data Driven Systems for Ayadi Glocal School and Raihan Online Madrasasa
- ❖ AI Based Content Creation System for Raihan and its tracking system

CTO: Iluzia Labs – Calicut || Jan'25– Till now

Key Result Areas:

- ❖ Developed Full Employee Training System in VR by creating intelligent responding system for a Saudi Based Client

- ❖ Created Agentic VR Language Learning Lab
- ❖ Developed AI- Data Driven Education Ecosystem in AILT Global Academy Gujarat for their complete academic operations including School Management Systems, LMS, Smart Admission Robots and Associated with the institute as academic partner
- ❖ Collaborated with Zyra Education for selling Educational VR products across India
- ❖ Developed online education platform for Zyra Learning
- ❖ Developed Zia App for English Learning with cognitive science based gamified applications
- ❖ Developed Interactive Immersive Learning Managing System with 1000+ contents

Senior Data Engineer: Photon Interactive Technology – Chennai || Oct'23– Jan 2025

Key Result Areas:

- ❖ Full stack Gen AI chat applications development for 4 phases
- ❖ To develop an AI-driven chatbot that facilitates IT issue resolution for end users and IT help desk personnel by leveraging past Jira tickets, technical documentation, and internet resources. The chatbot automated ticket creation, resolution, and tracking.
- ❖ Created ReActAgent-based multiple tools using chatbot and integrated them with the chatbot service UI.
- ❖ Created the data engineering flow service to facilitate data injection from various resources to preprocessed mongo db services then to chroma db service
- ❖ Created mail report scheduler service for daily, weekly and monthly for analysing the behaviour and people's satisfaction on interaction with the agent
- ❖ Created a chat agent for it smart docs for confluence and sharepoint documents for get smart answers around the applications, projects, documents, people..etc
- ❖ Created PoC for PAGL Guideline project for extracting rules for making the decision
- ❖ Created microservice architecture in Kubernetes service for ensuring smooth working of the applications

Data Scientist: Pristine AI - Retail Solution – Chennai || Jan'22 – Oct 23

Key Result Areas:

- ❖ Expertly designing and developing a dynamic user interface that utilizes user behavior analysis to preempt actions and save time; enhancing overall user experience and efficiency
- ❖ Seamlessly integrating Knowledge Graph of Context Panel with IUX and enabling more effective data visualization and decision-making
- ❖ Developing business solutions by using the available data and applying statistical & learning methods
- ❖ Utilising predictive modelling to increase & optimize customer experiences and revenue generation
- ❖ Analysing the user needs and requirements for determining feasibility of design within time and cost constraints
- ❖ Driving the analytical scope and method for projects, including formulating and shaping the models
- ❖ Processing complex data sets using advanced queries, visualization and analytics tools
- ❖ Exploring applications of Data Science for operational excellence and using Machine Learning to derive key insights
- ❖ Establishing scalable, efficient, automated processes for large scale data analyses, model development, model validation and model implementation
- ❖ Designing and implementing statistical/ predictive models and cutting edge algorithms, utilising diverse sources of data to predict demand and risk
- ❖ Developing long-term competitor strategy recommendation service while providing valuable insights for businesses to stay ahead in the market
- ❖ Conducting in-depth promotion analysis and recommending the best promotions based on past performance; driving increased sales and customer satisfaction
- ❖ Emerging a resource usage forecasting service to predict infrastructure utilization and time required for batch running; optimizing resource allocation and reducing operational costs

- ❖ Analysing transactions to identify product affinities, purchase intervals, and item classifications, and also enabling targeted marketing and sales strategies
- ❖ Maintaining and enhancing a service that builds and maintains machine learning models for predicting price and promotion points, resulting in improved sales, margin, and volume
- ❖ Generating comprehensive prediction reports on the performance of the recommendation service and also providing actionable insights for continuous improvement

Highlights:

- ❖ Successfully implemented a new Liquid Neural Network for model building, resulting in improved accuracy and performance, which led to increased sales and customer satisfaction
- ❖ Developed a prediction report generation service in Python, providing valuable insights into the performance of the recommendation service



PREVIOUS EXPERIENCE

STEM Trainer, ATL Incharge, PGT: Mems International - Calicut, Kerala || Jun'14 - Dec'20



PERSONAL PROJECTS

Created the Data Driven Education Ecosystem and the organizational restructuring for AILT Global academy, Rajkot , Gujarat:

- ❖ Created an automatic lesson plan creator using gemini api, lesson approval automation, reminder mail automation, leave approval, purchase approval automation, daily report consolidation and automation, student portfolio dashboard, teachers portfolio dashboard, Behaviour Management Dashboards and its integration with Power BI

Classification of Behavioral States from Pupil Dynamics:

- ❖ Developed a system that classifies behavioral states from pupil dynamics data, which resulted in improved accuracy of eye tracking systems and understanding of the relationship between pupil dynamics and cognitive states
- ❖ Built classification models using PCA algorithms and predicted behavioral states for unseen data online with 98% accuracy

Technological and Behavioural Solution for Waste management in Dhaka city of Bangladesh:

- ❖ Developed a solution for waste management in Dhaka city, contributing to sustainable urbanization efforts (solution was developed in a hackathon conducted by Asia Europe Foundation(ASEF))

Intelligent Tutoring System:

- ❖ Developed an intelligent tutoring system that used adaptive content delivery to promote inclusive education
- ❖ The system was implemented on AWS Cloud Platform and used machine learning algorithms to personalize the learning experience for each student; project is under development

Study on Gaming Behavior of Students on Their Mathematics Scores:

- ❖ Conducted a study to investigate the relationship between gaming behavior and mathematics scores
- ❖ The study found that students who played positive video games that involved problem-solving and critical thinking skills had higher mathematics scores

ACADEMIC PROJECTS

GPT API Projects

Natural Language to SQL Queries: Developed a system that converts natural language queries into SQL queries. This system was used to improve the efficiency of data analysis by making it easier for users to interact with data

Natural Language to Graphical Representation: Developed a system that converts natural language descriptions into graphical representations. This system was used to improve the communication of complex ideas by making them easier to understand

Automatic Blog Post Generation: Developed a system that automatically generates blog posts. This system was used to create content for a company's blog, which helped to increase website traffic and engagement

Automated Recipe from Ingredients by integrating with DALLE: Developed a system that automatically generates recipes from ingredients. This system was used to create a website that allows users to find recipes for specific ingredients

Translation and Summarization from International Newspapers: Developed a system that translates and summarizes articles from international newspapers. This system was used to provide users with access to news from around the world

Automatic Code Docstrings for Python: Developed a system that automatically generates docstrings for Python code. This system was used to improve the readability and documentation of Python code

Fine-Tune Custom Chatbots: Developed a system that fine-tunes custom chatbots. This system was used to improve the accuracy and performance of chatbots

Perform Sentiment Analysis on Reddit Posts: Developed a system that performs sentiment analysis on Reddit posts. This system was used to track public opinion on various topics

Vector Text Embed Company Documents and Model Fine Tuning: Developed a system that vectorises company documents and fine-tunes models. This system was used to improve the accuracy of search results and the performance of machine learning models

CERTIFICATIONS

Python for Data Science	Getting Started with AWS Machine Learning	Introduction to Probability and Data with R
2 nd Winter School on Cognitive Modelling	Neural Networks and Deep Learning	Foundations: Data, Data, Everywhere
Statistical Data Visualization with Seaborn from UST	Supervised Machine Learning: Regression and Classification	Improving Deep Neural Networks
Hyperparameter Tuning, Regularization and Optimization	OpenAI Python API Bootcamp: Learn to use AI, GPT, and more	Introduction to Generative AI

PUBLICATIONS

- ❖ A digital solution to Dhaka's waste problem published in The Daily Star newspaper
- ❖ Podcast broadcasted by ASEF on Liveable Cities across Asia & Europe
- ❖ ASEF Sustainable Urbanisation and Digital Innovations: Perspectives from ASEM Youth
- ❖ Introduction to Generative AI

EXTRACURRICULAR HIGHLIGHTS

- ❖ Received 1st rank in COGJET CBCS OBC
- ❖ Qualified UGC NET

❖ Got 2nd prize in ASEF Hackthon



PERSONAL DETAILS

Date of Birth: 26th June 1990

Languages Known: English, Malayalam and Arabic

Address: Kerala – 676523