



# GOKULNATH KANDASAMY

## AI ML ENGINEER

### PERSONAL PROFILE

AIML Engineer with 4 years of experience in building and deploying AI solutions, machine learning models, and data science workflows. Skilled in implementing scalable AI systems on Azure Cloud, including Azure Machine Learning, Cognitive Services, and end-to-end deployment pipelines. Proven expertise in solving complex problems with advanced analytics and production-ready AI models.

### WORK EXPERIENCE

#### Systems Engineer (AI Engineer)

Tata Consultancy Services | May 2024 - Present

##### AI Engineer:

- Designed and developed advanced RAG architecture applications to improve the contextual relevance and accuracy of generative AI models.
- Implemented efficient retrieval mechanisms to provide dynamic context for generative processes.
- Optimized model performance through rigorous fine-tuning and parameter adjustments.
- Developed and executed comprehensive testing strategies to evaluate RAG architecture performance using RAGAS and azure metrics.
- Conducted experiments to assess the reliability, scalability, and accuracy of AI models.
- Analyzed test results and implemented iterative improvements to enhance model robustness.
- Developed Email automation using python to keep tracking on SLA's and UI to present data to stakeholders
- Leveraged azure open AI and azure AI search services for the development of RAG architecture.

#### Data Engineering Analyst (AI ML Engineer)

Accenture Solutions Private Limited | Dec 2020 - May 2024

- Collaborated closely with cross-functional teams, including data scientists, domain experts, and software engineers, to define project objectives, data requirements, and model deployment strategies.
- Developed and deployed machine learning model to predict propensity to pay and propensity to slow pay, enabling data-driven decision-making for customer credit risk management (Late payers).

### CONTACT

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### SKILLS

- Python
- Machine Learning
- Data Science
- Data Visualization
- MySql
- Core Java
- Azure data services
- Generative AI
- AI ML

### AWARDS

🏆 Star of the month  
award

🏆 Rising Star of team

### TOOLS

- Scikit learn
- Power BI
- Open AI
- Matplotlib

- Developed and implemented a theft detection machine learning model for the power industry, enabling proactive identification of unauthorized energy usage and reducing losses.
- Developed and implemented machine learning models (CARE and FERA) to identify potential customers eligible for bill rate reduction programs, enhancing customer satisfaction and optimizing program outreach.
- Developed an application leveraging Azure Document Intelligence to extract and process customer billing information from invoices, automating data entry and improving operational efficiency.
- Designed and developed interactive Power BI dashboards to visualize and analyze data from databases, enabling clients to make data-driven decisions efficiently.
- Conducted thorough data analysis and preprocessing, ensuring high-quality data inputs for model development.
- Leveraged cutting-edge machine learning libraries such as scikit-learn, XGboost to build and train models, achieving consistently high accuracy and performance.
- Developed a POC leveraging Azure Open AI and Azure AI Search to generate data based on prompts, enhancing data retrieval and generating capabilities.
- Conducted regular model performance evaluations and fine-tuned hyperparameters to maintain model accuracy and reliability in dynamic business environments.
- Presented model results and insights to executive stakeholders, driving data-driven decision-making and strategic planning.
- Contributed to a culture of continuous learning by staying updated with the latest advancements in machine learning and sharing knowledge with the team.

## EDUCATION

### MS - Data science

July 2022 - Dec 2022

### BE - Electronics and Communication Engineering

July 2016 - April 2020

## CERTIFICATIONS AND TRAININGS

- Azure Fundamentals - Microsoft Corporation
- Azure AI Fundamentals - Microsoft Corporation
- Python and Spark for Data science
- Data science
- Salesforce Administration - Salesforce Inc

## LINKS

- Github - <https://github.com/Gokul123Nath>
- Linked In - <https://www.linkedin.com/in/gokulnath-kandasamy-32913517b/>