Mariya Mathew

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Professional Summary

Self-motivated and detail-oriented software engineering student with a strong foundation in core programming concepts and object-oriented programming (OOP). Passionate about software development and eager to work. Proficient in database management and SQL, with excellent problem-solving and communication skills. Looking for an opportunity to grow as a software engineer while contributing to team success.

PROFESSIONAL EXPERIENCE

G10X Technology Pvt. Ltd   **Jan 2025 – Present**
Data Science Intern   *Kochi, Kerala*

First Consulting Group (FCG)   **Oct 2024 – Dec 2024**
AI Intern   *Kochi,Kerala*

Hexcent Pvt. Ltd   **July 2024**
Project Intern   *Remote*

EDUCATION

Rajagiri School of Engineering and Technology   **Kochi, Kerala**
B.Tech in Artificial Intelligence and Data Science   *Nov. 2022 – May 2025*

Chavara Public School, Pala   **Kottayam, Kerala**
May 2019 – May 2021

Holy Spirit Public School   **Kottayam, Kerala**
May 2017 – May 2019

CERTIFICATIONS

- Deep Learning by IIT Ropar: NPTEL
- AWS Developing Machine Learning Solutions
- AWS Developing Generative Artificial Intelligence Solutions
- IBM Introduction to Cloud Computing: Coursera
- Infosys SpringBoard: Text Mining and Analytics: Machine Learning for NLP
- Infosys SpringBoard: Text Mining with Machine Learning and Python
- Infosys SpringBoard: Text Mining and Analytics: NLP Libraries

PROJECTS

DigiHealth (Electronic Medical Record System)
React.js, Node.js, Express.js, MongoDB

- **Situation:** AI-powered EMR system to enhance patient care and medical record accessibility.
- **Task:** Address inefficiencies by summarizing medical data through AI.
- **Action:** Leveraged React.js for UI, Node.js and Express.js for backend, and MongoDB for data storage. Integrated Gemini API for AI-driven summarization.
- **Result:** Improved decision-making and medical data accessibility for healthcare professionals.

Text Summarization Using BART
Python, BART, Transformers, PyTorch, Google Colab

- **Situation:** Automating abstractive text summarization using a transformer-based model.
- **Task:** Develop an NLP model that generates concise summaries from large text datasets.
- **Action:** Utilized the BART model with transformers in Python, trained on a dataset of 40,000 news articles.
- **Result:** Successfully generated high-quality abstractive summaries and deployed a web-based interface for real-time summarization.

Build Classification Algorithms [Banking] Deployment
Python, AWS EKS, Kubernetes, Flask, Docker, MLOps

- **Situation:** Deploying a machine learning model to identify potential borrowers in the banking sector.
- **Task:** Implement MLOps for continuous deployment and scaling using AWS cloud services.
- **Action:** Built and containerized an ML model with Flask, deployed via AWS EKS, ECR, and CodePipeline.
- **Result:** Successfully automated deployment pipelines, ensuring seamless model updates and scalability.

ML Model Deployment on Azure for Deep Learning Time-Series Project
Python, Azure, Flask, Docker, MLOps, Deep Learning

- **Situation:** Deployed a deep learning time-series model on the Azure cloud using MLOps principles.
- **Task:** Created a virtual machine, developed a Flask API, and containerized the model for deployment.
- **Action:** Used Docker for containerization, set up an automated deployment pipeline, and integrated Azure services.
- **Result:** Enabled efficient model serving with API endpoints, improving scalability and deployment efficiency.

HireSmart: AI-Driven Recruitment and Evaluation Platform (Ongoing)
Python, AI/ML, TensorFlow, NLP, Flask, Cloud Computing

- **Situation:** Traditional hiring is slow, biased, and inefficient due to manual resume screening and candidate evaluation.
- **Task:** Develop an AI-driven platform to automate job matching, candidate assessment, and recruitment workflows.
- **Action:** Built AI-powered resume matching; integrated AI-proctored MCQ tests with eye tracking; automated email notifications and recruiter dashboard for real-time evaluation.
- **Result:** Accelerated hiring, improved accuracy, and reduced bias through AI automation.

Telecom Customer and Revenue Forecasting System (Ongoing)
Python, Prophet, Pandas, NumPy, Streamlit, Scikit-learn

- **Situation:** Designing an AI-powered forecasting solution to predict customer count, revenue, and usage volume for a telecom dataset with incomplete customer status data.
- **Task:** Creating a robust time-series forecasting system to analyze historical trends and provide actionable insights for business planning.
- **Action:** Developed data preprocessing pipelines using Pandas and NumPy to simulate customer count variations, implemented Prophet models with custom regressors, and built an interactive dashboard with Streamlit for visualization and scenario analysis.
- **Progress:** Currently optimizing model parameters to enhance forecast accuracy, refining data simulation techniques, and enhancing dashboard usability for real-time decision-making.

SKILLS

Technical Skills: Python, Machine Learning, C, JavaScript, React.js, Django, SQL, HTML/CSS, API Testing, Linux, Azure, GitHub, Postman, Bootstrap, Supervised Unsupervised Learning,Deep Learning (Neural Networks, CNNs, RNNs, Transformers), Reinforcement Learning, NLP, MongoDB, MySQL.
Soft Skills: Teamwork, Willingness to Learn, Self-Motivated, Communication, Leadership, Strategic Planning, Time Management, Adaptability, Collaboration, Decision Making, Emotional Intelligence, Growth Mindset, Visionary.
Language Proficiency: English (Proficient), Malayalam (Native), Hindi (Basic), Tamil (Basic).