

# Mariya Mathew

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## PROFESSIONAL EXPERIENCE

<b>G10X Technology Pvt. Ltd</b> <i>Data Science Intern</i>	<b>Jan 2025 – Present</b> <i>Kochi, Kerala</i>
<b>First Consulting Group (FCG)</b> <i>AI Intern</i>	<b>Oct 2024 – Dec 2024</b> <i>Kochi, Kerala</i>
<b>Hexcent Pvt. Ltd</b> <i>Project Intern</i>	<b>July 2024</b> <i>Remote</i>

## EDUCATION

<b>Rajagiri School of Engineering and Technology</b> <i>B.Tech in Artificial Intelligence and Data Science</i> <b>CGPA: 7.06</b>	<b>Kochi, Kerala</b> <i>Nov. 2022 – May 2025</i>
<b>Chavara Public School, Pala</b> <i>CBSE AISSCE: 89.8%</i>	<b>Kottayam, Kerala</b> <i>May 2019 – May 2021</i>
<b>Holy Spirit Public School</b> <i>CBSE AISSE: 87.2%</i>	<b>Kottayam, Kerala</b> <i>May 2017 – May 2019</i>

## 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.

## AI-Powered Forecasting for Telecom Industry (Ongoing)

*Python, FastAPI, TensorFlow, XGBoost, Prophet, Docker*

- **Situation:** Developing an AI-driven forecasting model to predict revenue, customer count, and usage volume for a telecom company.
- **Task:** Building a scalable prediction system integrating machine learning models for time series forecasting.
- **Action:** Implementing XGBoost, Prophet, and LSTM models, deploying the API using FastAPI, and containerizing with Docker for deployment.
- **Progress:** Currently fine-tuning model accuracy and optimizing API performance for real-time predictions.

## SKILLS

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**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, Communication, Leadership, Strategic Planning, Time Management, Adaptability, Creativity, Collaboration, Decision Making, Emotional Intelligence, Growth Mindset, Visionary.

**Language Proficiency:** English (Proficient), Malayalam (Native), Hindi (Basic), Tamil (Basic).