

# PREETHI GM

preethi.gm76@gmail.com | 9108107326 | [LinkedIn](#) | [GitHub](#) | Bangalore, India

---

## Profile Summary

Engineering graduate with strong foundations in Software Development, Data Analysis, and Machine Learning. Experienced in designing, developing, testing, and deploying scalable applications and predictive models using Python and SQL. Familiar with SDLC, Agile methodologies, object-oriented programming, and data preprocessing. Skilled in debugging, performance optimization, and translating business requirements into technical, data-driven solutions.

---

## Skills & Certifications

- **Technical Skills:** Python, SQL, TensorFlow, Keras, Scikit-learn, OpenCV, Azure AI, Machine Learning, Deep Learning, NLP, GEN AI, MATLAB.
  - **Soft Skills:** Communication, Adaptability, Problem Solving, Teamwork, Attention to detail.
  - **Certifications:** Python (Udemy), Google Cybersecurity (Coursera), Blockchain (Coursera), Data Science (Coursera), Microsoft Azure AI, Generative AI using LLMs to work with data (IBM), MATLAB Onramp through MathWorks.
- 

## Education

### Ramaiah University of Applied Sciences, Bangalore

B.Tech in Artificial Intelligence and Machine Learning | CGPA: 7.72/10 | June 2025

---

## Work Experience

### 1. Trip Factory | Software Development Intern (Java)

Dec 2025 – Jan 2026

- Developed and maintained Java-based applications for travel booking workflows.
- Implemented backend features and business logic in Java for application functionality.
- Collaborated in an Agile team to design, test, and deploy scalable software solutions.
- Optimized existing code and fixed bugs to improve system reliability.

### 2. EDU TANTR (Remote) | AI Intern

- Developed **Azure AI Vision and NLP solutions** for image analysis and sentiment extraction.
  - Automated **document processing workflows** using Azure Document Intelligence.
  - Gained practical experience in **cloud-based AI solution development**.
- 

## Projects

### Airline Review System | Python, Keras, Matplotlib

- Built a neural network to predict airline flight recommendations from customer reviews.
- Pre-processed text data and trained the model using binary cross-entropy loss and Adam optimizer.
- Developed a **user-friendly interface** for real-time predictions and visualized model performance.

### Sentiment Analysis of Restaurant Reviews Using NLP | Python, ANN, Bag of Words

- Designed an ANN to classify sentiments of 1,000 restaurant reviews.
- Achieved **98% accuracy** over 25 epochs and evaluated performance with standard metrics.

### Colon Polyp Detection, Segmentation, and Classification Using Deep Learning | Python, CNN, YOLOv5, MobileNetV2

- Built deep learning models for polyp detection (CNN & YOLOv5), segmentation (Dice scores: 0.98, 0.86), and classification (MobileNetV2, 0.92 accuracy).
- Developed a **GUI for clinical applications**.
- Project recognized at the **First National Conference, NITK Surathkal**.

### EyeSight: Non-Invasive Diabetic Retinopathy Detection Using Deep Learning | Python, TensorFlow, Keras

- Implemented **ensemble CNN models (ResNet50, EfficientNetB3, DenseNet169)** achieving 95% validation accuracy.
  - Pre-processed and augmented medical images for robust model training.
  - Developed a real-time prediction interface using Streamlit; managed large datasets with Google Drive & Collab.
- 

## Activities & Achievements

- Class Representative for 4 years – ensured smooth communication across faculty & students.
- Organized Engineer's Day 2023 & 2024 at Ramaiah University.
- Volunteer at National Technology Day 2023.
- Attended workshops on **AI/ML in Healthcare** and **Data Modelling for Prediction**.