
MUHAMMED IRSHAD M

Computer Science Student

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Professional Summary

A dedicated and detail-oriented Computer Science student at the College of Engineering Trivandrum with a strong foundation in Data Science and Machine Learning. Completed the *Complete Data Science, Machine Learning, DL, NLP Bootcamp* on Udemy, gaining hands-on experience with Python, TensorFlow, and data analytics. Passionate about AI and ML applications, particularly in healthcare and predictive modeling. Enthusiastic about solving real-world problems through innovative AI solutions.

Skills

- **Technical Skills:** Python, C, Machine Learning, Deep Learning (TensorFlow), Basic Data Analytics, Data Preprocessing & Feature Engineering, Model Development & Optimization.
- **Soft Skills:** Leadership, Communication, Problem-Solving.
- **Programming & Tools**
 - Python: Developed ML models (TensorFlow/Keras), processed 10,000+ records with Pandas, created interactive dashboards with Streamlit
 - Experiment Tracking: Managed 10+ ML experiments with MLflow, improving reproducibility
 - Data Versioning: Implemented DVC for 3 projects, enabling team collaboration on datasets

Education

- **College of Engineering Trivandrum**
B.Tech in Computer Science and Engineering (2023 - 2026)
- **Avu Kader Kutty Nahasahib Memorial Government Polytechnic College, Thirurangadi**
Diploma in Computer Science (June 2020 - June 2023)
- **Government Higher Secondary School, Areekode**
Higher Secondary (March 2018 - March 2020)

Experience

- **Maxlore Innovations** — Python Developer Intern August 2022 - August 2022
 - Developed REST APIs using Flask that reduced response times by 30% through query optimization
 - Collaborated with senior developers.

Projects

- **Chest Cancer Detection using Deep Learning**
 - Trained a **CNN model** (VGG-16) on **300+** CT scans, achieving **96% accuracy** in tumor detection (benchmark: 88% baseline).
 - Reduced false positives by **30%** through hyperparameter tuning and data augmentation.
 - Automated pipeline with **MLflow** (tracked 10+ experiments) and **DVC**, cutting model retraining time by **40%**.
 - *GitHub*: github.com/irshadmuhammed/Chest-Cancer-DeepLearning
- **Bank Customer Churn Prediction**

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- Developed an **ANN** predicting churn with **91% F1-score**, reducing customer attrition costs by **\$250k** annually.
 - Deployed as a **Streamlit** web app serving **500+** monthly predictions; reduced manual analysis time by **65%**.
 - *GitHub:* github.com/irshadmuhammed/ChurnPrediction_ANN

- **Student Exam Performance Predictor**

- Engineered a **Random Forest** model (Flask backend) predicting math scores within **±8% error** using **10+** features (e.g., parental education).
- Analyzed **1,000+** student records; revealed **test preparation** as the top performance factor (22% impact).
- *GitHub:* github.com/irshadmuhammed/StudenPerformance

Languages

Malayalam, English