

MOHAMMED MUSTHAFA

STUDENT — MSc Computational Data Science

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PROFILE

Enthusiastic and motivated graduate student specializing in AI and data science, with experience in machine learning, data analysis, and full-stack development. Seeking opportunities to apply analytical and engineering skills in high-impact teams.

EDUCATION

- MSc, Computational Data Science** 2025–present
Khalifa University, UAE | GPA: 3.68/4
- B.Tech, AI and Data Science** 2021–2025
Jyothi Engineering College, APJ Abdul Kalam Technological University | CGPA: 8.02/10

PROFESSIONAL EXPERIENCE

- Data Science Intern** Jun 2024–Jul 2024
Oracuz Infotech, Trivandrum
Analyzed datasets, built ML models, tuned hyperparameters, and created visualizations for insights.
- Full-Stack Development Intern** May 2023
Tech ByHeart, Kochi
Built end-to-end features across the SDLC; improved app performance and reliability.
- Data Science Intern** Oct 2022–Dec 2022
Teachnook
Cleaned data, engineered features, and optimized models to enhance accuracy.

PROJECTS

- ChestXray14: 1024×1024 VAE + Latent Classifier** — Trained a convolutional VAE and used 64-d latent embeddings for multi-label disease prediction with macro F1 evaluation. *PyTorch, scikit-learn*
- Malayalam Sentiment Analysis Service** — Built and deployed a production-ready sentiment analysis API using FastAPI, Docker, GitHub Actions (CI), and Kubernetes. Implemented model serving with health probes, automated testing, containerization, and ingress-based routing for scalable ML deployment. *FastAPI, Docker, Kubernetes, CI/CD*
- Brain Tumor Detection via Convolutional Autoencoder** — Built an unsupervised MRI anomaly-detection model using reconstruction-error thresholding and heatmap localization. *PyTorch, NumPy, OpenCV*
- AI Music Synthesizer**
Developed a GAN-based system for generating custom music sequences. *C++, Python*
- Sentiment Analysis of Malayalam Movie Reviews (BERT)**
Led a team building sentiment analysis for Manglish reviews; deployed a classifier. *Python, NLTK*
- BinTrackPro**
Designed an efficient solid-waste management solution with tracking and alerts. *HTML, CSS, JS, Python*
- Portfolio**
Built a personal portfolio site with responsive UI. *HTML, CSS, JS*

SKILLS

- Languages:** Python, R, Java, C, Shell, HTML, CSS, JS
- Frameworks:** TensorFlow, PyTorch, scikit-learn, Keras
- Data:** Pandas, Matplotlib, Seaborn, Tableau, Power BI
- Tools:** SQL, MySQL, Git/GitHub, Linux

LEADERSHIP EXPERIENCE

- General Secretary** 2023–2024
- Department Coordinator — Techfest** 2022–2023
- Class Representative** 2022–2024

ACHIEVEMENTS & CERTIFICATIONS

- Top-10 Award, *BinTrackPro*, Karthavya Hackathon Mar 2024
- NPTEL: Deep Learning (12-week), Data Science for Engineers (8-week)
- Certifications in Data Analytics, AI, Web Development, Machine Learning, LLM

OTHER

Volunteering: IUCN volunteer, CSI Professional Body Member, hackathins, workshops

Languages: English, Malayalam, Hindi, Arabic, Tamil

Interests: Reading, Football, Travelling, Movies, Gym