JANMESH JOSHI

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Github.com/JanmeshJ | Portfolio | LinkedIn/janmeshjoshi

PROFESSIONAL SUMMARY

AI/ML Engineer with over 3 years of experience designing and deploying scalable ML models using Python, TensorFlow, and AWS. Skilled in data pipelines, NLP, and distributed systems, with a focus on building production-ready AI solutions. Pursuing an MSc in Human-Centered AI, combining technical depth with a focus on practical, explainable AI applications.

TECHNICAL SKILLS

Languages & Frameworks: Python, JavaScript, SQL, TensorFlow, PyTorch, PySpark, Pandas, Scikit-learn, Jira Administration (Jira/JSM), GitHub, REST APIs
Frontend Skills and CS Concepts: UI Design (Tkinter), Web Development (HTML/CSS/JavaScript)

EXPERIENCE

Machine Learning Engineer — June 2022 – Aug. 2024
Panghat — *Mumbai, India*
- Engineered and deployed predictive ML models on AWS for time-series and demand forecasting, improving forecast accuracy by 18%.
- Automated ETL workflows using Python, Pandas, and SQL, reducing manual processing by 30%.
- Collaborated with cross-functional teams (engineers and analysts) to design scalable ML pipelines with monitoring and error handling.
- Conducted experiments for feature selection and hyperparameter tuning using Scikit-learn and XGBoost.

Lab Assistant & Programming Tutor — Feb. 2025 – Present
Technological University of Dublin — *Dublin, Ireland*
- Mentored students on distributed computing, database optimization, and algorithmic scalability.
- Designed and evaluated backend solutions emphasizing concurrency, resource allocation, and fault tolerance.

EDUCATION

Technological University of Dublin — Sept. 2024 – Oct. 2025
Master's, Human Centered Artificial Intelligence — *Dublin, Ireland*
relevant coursework

University of Mumbai — Aug. 2020 – May 2022
Master's, Information Technology — *Mumbai, India*

PROJECTS

EchoVerse - Real-Time Speech Intelligence | Demo | GitHub |
Python, FastAPI, Whisper, Docker, Google Cloud Run, HTML, CSS, JS
- Built and deployed a production-grade Speech-to-Text web application using OpenAI Whisper and FastAPI, enabling real-time audio transcription with high accuracy.
- Containerized and automated deployment through Docker and Google Cloud Run, integrating CI/CD using Cloud Build.
- Designed a modern, responsive web interface for live recording, file upload, and transcription visualization.
- Optimized inference pipeline for CPU deployment, reducing response latency and improving scalability for production workloads.

Digital Notice Board | *Python, Tkinter, SQLite, Pandas, Git, OOP*
- Built an interactive desktop application using Python and Tkinter, featuring real-time UI updates and automated content rendering.
- Applied object-oriented design to ensure modularity and future integration of features like login and remote sync.

CERTIFICATIONS

Deep Learning Specialization (Coursera), Natural Language Processing with Python (Udemy), TensorFlow Developer Certificate (Google)