Janmesh Joshi

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PROFESSIONAL SUMMARY

AI/ML Engineer with 2+ years of experience designing scalable ML solutions and distributed systems. Skilled in Python, C++, and cloud technologies (AWS, academic exposure; Azure, self-projects). Experienced in HPC workloads, data pipelines, and fault-tolerant systems. Currently pursuing MSc in Human-Centered AI with focus on explainable and conversational AI.

TECHNICAL SKILLS

Languages & Frameworks: Python, JavaScript, SQL, TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, Localization Workflows, Multilingual Dataset Handling, AWS (EC2, S3, SageMaker, Azure Cloud - academic exposure)
Frontend Skills and CS Concepts: UI Design (Tkinter), Web Development (HTML/CSS/JavaScript)

EXPERIENCE

Machine Learning Engineer
June 2022 – Aug. 2024
Panghat
Mumbai, India

- Designed and deployed predictive ML models on distributed cloud systems (AWS), ensuring scalability and fault-tolerance for time-series forecasting workloads.
- Built scalable ETL pipelines using Python and Pandas, cutting manual workload by 30% and supporting high-throughput data processing.
- Deployed ML models on cloud (AWS EC2, S3, SageMaker – academic + professional) ensuring distributed training and production-readiness.
- Collaborated on cloud deployment (AWS) with monitoring and error-handling mechanisms to ensure service health.

Lab Assistant & Programming Tutor
Feb. 2025 – Present
Technological University of Dublin
Dublin, Ireland

- Guided students in database optimization and distributed querying (PostgreSQL/MySQL), introducing principles of scalability and parallel computation.
- Delivered hands-on sessions on algorithms and backend design, emphasizing concurrency and resource allocation in compute-intensive tasks.

EDUCATION

Technological University of Dublin
Sept. 2024 – Expected Sept. 2025
Master's, Human Centered Artificial Intelligence
Dublin, Ireland

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

PROJECTS

Customer Intent Classification in AI Chatbot |
Python, Scikit-learn, Pandas, NLTK, Flask, SQLite, REST APIs, Git, Postman   Dec. 2021 – April 2022

- Built a Flask REST API to serve intent classification model, handling 500+ real queries with 92% accuracy.
- Optimized training workflows for NLP models, simulating distributed training and scalable API deployment.
- Integrated logging for continuous learning and model updates, simulating reinforcement learning cycles in conversational AI.

Digital Notice Board | *Python, Tkinter, SQLite, Pandas, Git, OOP*
Jan. 2018 – July 2020

- 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)