

Jashwanth S

Data Scientist & AI Specialist | Deep Learning Expert | Python, TensorFlow, Keras | ML Engineer

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SUMMARY

AI/ML Engineer with experience deploying machine learning systems processing 10+ million records. Proven expertise in MLOps pipelines, Deep Learning, and Generative AI with hands-on experience in Python, TensorFlow, and cloud infrastructure. Specialized in LLM fine-tuning, computer vision, and real-time inference systems with experience scaling ML applications for enterprise environments.

EDUCATION

BE (Honors) in Artificial Intelligence and Machine Learning, Visvesvaraya Technological University (GPA: 9.53 CGPA) Aug '25
Bangalore, Karnataka, India

SKILLS

Programming Languages Python, Java, SQL, R, JavaScript, HTML, CSS

Frameworks & Tools FastAPI, Streamlit, LangChain, Transformers, SentencePiece, Ollama, OpenCV, Matplotlib, Seaborn, SciPy, Docker, Git, GitHub, TensorFlow, PyTorch, XGBoost, Scikit-learn, NumPy, Pandas

Cloud & Infrastructure AWS, Google Cloud Platform, SageMaker

Databases & Data Stores MySQL, Elasticsearch, MongoDB

Specializations & Techniques Deep Learning, NLP, Computer Vision, Predictive Modeling, LLM Fine-tuning, Generative AI, Retrieval-Augmented Generation (RAG), AI Agents, MLOps, Embedding Techniques, Feature Engineering, Data Preprocessing, Model Evaluation

Languages Malayalam, Telugu, Tamil, Kannada, Gujarati, Bengali, English

EXPERIENCE

Data Engineering Intern Aug '24 — Apr '25
Ai Palette Bangalore, India

- Managed and maintained more than 10 million records across production and duplicate datasets, ensuring data consistency and high availability, which decreased data retrieval errors by 25%.
- Engineered lightweight, optimized processing workflows tailored for live scenarios that increased system throughput by 35% and improved response times by up to 20%, supporting rapid decision-making processes.
- Spearheaded the development of scalable data pipelines that automated data movement into production environments, resulting in a 40% reduction in manual processing time and enabling near real-time analytics.

Data Engineer Aug '25 — Present
Global Data Bangalore, India

- Automated data pipelines with Apache Airflow processing 1M+ rows weekly across multiple databases, cutting manual effort by 60%.
- Mentored and managed interns in pipeline development to boost team productivity.
- Developed Spark-based data collection and enrichment pipelines, handling datasets of 100GB+ efficiently.
- Built a Google Search data pipeline integrating S3 and PostgreSQL, improving data ingestion speed by 40%.
- Reduced manual tagging time by 70% through automated workflows using LLMs and Spark.

VOLUNTEER EXPERIENCE

Yoga Instructor, Saraswathi Yoga Kendra Bangalore, Karnataka
Aug '24 — Nov '24

Conducted weekly yoga sessions for students to promote physical and mental well-being.

Created tailored yoga routines for different skill levels, benefiting over 20 students.

Developed leadership and teaching skills by guiding students through structured sessions and monitoring progress.

PROJECTS

RAG system Oct '23 — Dec '23

- Engineered a Retrieval-Augmented Generation (RAG) system utilizing Python, SentencePiece, and FAISS to process 5,000+ documents, achieving 2.3-second average retrieval time and 85% relevance accuracy based on manual evaluation of 200 test queries.
- Integrated comprehensive evaluation metrics such as BLEU, ROUGE, and BLEURT to measure response quality, achieving BLEU score of 0.34 and ROUGE-L score of 0.42 across 500 test question-answer pairs.
- Developed an end-to-end interaction platform combining document parsing, search capabilities, and response generation with Streamlit and transformers, supporting 10+ concurrent users with 95% uptime during testing phase.

SpeakEasy: Real Time Indian Language Translation

Jul '24 — Dec '24

- Optimized transformer training workflows by fine-tuning models on 100,000 parallel sentence pairs across 6 Indian languages, achieving 23.4 BLEU score for English-Hindi translation and 21.8 BLEU score for English-Tamil translation.
- Developed an intuitive CLI and web interface utilizing HuggingFace transformers, enabling real-time translations with average latency of 1.8 seconds per sentence and supporting batch processing of up to 50 sentences.
- Expanded language support to include Kannada, Tamil, Telugu, Malayalam, Bengali, and Gujarati, creating a dataset of 50,000+ validated translation pairs and achieving consistent translation quality across all supported languages.

Predictive Maintenance for IoT Devices

Jan '25 — Mar '25

- Engineered a machine learning system utilizing Python, Scikit-learn, and TensorFlow to forecast IoT device failures, achieving 92% accuracy on test dataset and 87% recall rate, enabling proactive maintenance strategies for 500 simulated IoT devices.
- Developed advanced feature extraction techniques from sensor data—including rolling averages and FFT—to enhance model performance; integrated models such as Random Forest, XGBoost, and LSTM which achieved 15% improvement in recall rates over baseline models.
- Deployed predictive models via Flask applications hosted on AWS cloud infrastructure, achieving 1.2-second average response time for real-time alerts; implemented interactive visualizations on Streamlit dashboards processing 10,000+ data points per device.

Waste Management System

Oct '23 — Dec '23

- Engineered a CNN-based waste detection system that classified 10 distinct material categories with 92% test accuracy, training on 15,000 images and validating on 3,000 images across balanced datasets.
- Enhanced model robustness and generalization by applying advanced image augmentation techniques such as rotation, scaling, and flipping, expanding training dataset by 3x and improving cross-validation accuracy from 87% to 92%.
- Accelerated real-time waste identification by integrating the trained model with OpenCV, achieving 150ms average inference time per image while maintaining 90% precision rate on 1,000 test images.

CERTIFICATIONS

Explore Generative AI with the Gemini API in Vertex AI	Google Cloud Skills Boost	Jun '25
Inspect Rich Documents with Gemini Multimodality and Multimodal RAG	Google Cloud Skills Boost	Jun '25
Develop GenAI Apps with Gemini and Streamlit	Google Cloud Skills Boost	Jun '25
Build Real World AI Applications with Gemini and Imagen	Google Cloud Skills Boost	May '25
Prompt Design in Vertex AI	Google Cloud Skills Boost	May '25
Data Analytics Job Simulation	Quantium	Mar '25
Data Science Job Simulation	BCG	Mar '25
Machine Learning with Python	IBM	Oct '23

AWARDS

AIML Rank Holder New Horizon College of Engineering Achieved 10th rank in AIML department with a CGPA of 9.53 , reflecting consistent academic excellence. Award presented by Manojkumar, IFS, Principal Secretary to the Government of Karnataka.	Aug '25
Rajyapuraskar Award Governor of Karnataka, Bharat Scouts & Guides Earned the Rajyapuraskar Award , the highest state-level honor in Scouting, recognising excellence in leadership, community service, outdoor skills, and discipline. Led a patrol team of 12+ members, coordinating training drills, outdoor camps, and service activities that strengthened teamwork and safety preparedness. Trained juniors in first aid, navigation, and expedition planning, contributing to a stronger and more self-reliant troop.	Apr '19

PUBLICATIONS

Management of Waste Using Object Detection Jashwanth S, Prajwal TS, et Patent No: 202341082049 A	Dec '23
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DECLARATION

I hereby declare that the above-mentioned information is true to the best of my knowledge and I bear responsibility for the correctness of the above-mentioned particulars.