Kowsalya Saravanan

SENIOR AI & ML ENGINEER

PROFILE

AI & ML Engineer with 1+ year experience delivering AI features for 6 apps (4 live). Skilled in Data Analytics, Computer Vision, NLP, and Recommendation Systems with strong model training expertise. Passionate about applying ML to solve real business problems.

SKILLS

- Machine Learning (Python, TensorFlow, PyTorch, Scikit-learn)
- Computer Vision (OpenCV, Mediapipe)
- NLP & Speech (LLMs, Transformers, Whisper STT, TTS)
- Data Analytics & Databases (PySpark, SQL, Neo4j)
- MLOps (Airflow, Docker, CI/CD, Git)

LANGUGES

- English
- Tamil

WORK EXPERIENCE

AI & ML Engineer — Data Spark AI Solution Company, Chennai, India
June 2024 – Present

- Sole AI/ML engineer in a 20-member team, delivering end-to-end solutions across NLP, Computer Vision, Data Analytics, and Recommendation Systems.
- Designed MLOps pipelines (Airflow, Docker, CI/CD) for model training, deployment, and monitoring.
- Built and deployed transformer-based NLP models, CNNs for proctoring & vision tasks, and graph-based recommenders.
- Delivered AI features for 6 commercial apps (4 live) including:
  - Sastra – Real-time multilingual speech translation & personalized recommendations.
  - Intervu – Resume parsing & job-matching with scraping + integrations.
  - IELTSGenAI & PTEGenAI – Proctoring systems with face authentication, monitoring, and AI-driven feedback.
  - Ace – Conversational AI bots for English learning using LLMs + STT/TTS.
  - Pandora – Smart school CV system for attendance, object & emotion detection.

EDUCATION & CERTIFICATIONS

- B.Sc. in Computer Science (2023) – Asan Memorial Arts and Science College, Chennai
- Data Science Certification (4 months) – Quality Thought

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