VIKASH V.D

vikashvd2004@gmail.com — +91 6385286710 — Coimbatore, India — LinkedIn — GitHub

Education

Coimbatore Institute of Technology — Coimbatore, India
M.Sc. Decision and Computing Sciences (Integrated) — *2022 – Present*
CGPA: 7.52

SVGV Matriculation Higher Secondary School — Coimbatore, India
Higher Secondary Education — *Completed 2022*
Percentage: 80%

Technical Skills

Languages	Python, C, SQL, JavaScript
Libraries & Frameworks	Scikit-learn, TensorFlow, Keras, FastAPI, Streamlit, Librosa, BeautifulSoup
Developer Tools	Git, Docker, VS Code, MySQL, Microsoft Excel, Power BI
Core Concepts	Machine Learning, Database Management, REST APIs, Data Visualization

Experience

Highonswift — Chennai, India
AI/ML Developer Intern — *June 2025 – Present*

- Engineered a modular, end-to-end speech-to-speech chatbot with agentic functionalities, designed for seamless integration into diverse web platforms. Containerized the full pipeline using Docker, integrating OpenAI Whisper (STT), Gemini LLM, and Coqui-ai (TTS) to enable advanced, task-oriented conversations.
- Developed and maintained REST APIs using FastAPI for an AI-based affiliate outreach platform, contributing to the core backend infrastructure and improving data processing efficiency.

Projects

Stock Sentiment Analysis — *Academic Project*
Technologies: Python, BeautifulSoup, Scikit-learn, Streamlit, VADER

- Developed a full pipeline for real-time sentiment analysis of stock news, incorporating web scraping, text preprocessing, and VADER-based sentiment classification.
- Implemented TF-IDF and cosine similarity to enable efficient, query-based news filtering for users.
- Trained and deployed a Random Forest model to predict stock trends, providing actionable insights for investors.

Speech Emotion Recognition — *Academic Project*
Technologies: Python, TensorFlow, Keras, Scikit-learn, Librosa

- Constructed a speech emotion recognition system by processing audio signals and extracting MFCC features using Librosa.
- Implemented and compared two distinct models: a Multi-Layer Perceptron (MLP) and a Random Forest classifier to evaluate performance trade-offs.
- Optimized the models for potential real-time applications in user sentiment analysis and mental health monitoring tools.

Certifications

- **Prompt Engineering Certification**, Upgrad
- **Data Analytics and Visualization Job Simulation**, Forage
- **Fundamentals of Digital Marketing**, Google Digital Garage

Achievements & Extracurriculars

- **Department Winner**, Smart India Hackathon 2023.
- **NCC 'A' Certificate** for demonstrated leadership, discipline, and community service.
- **Media Relations Coordinator**, 403 Strats: Managed public communications and social media.