Venkata Lokesh Panthangi *AI & ML Engineer*

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EDUCATION

Vasireddy Venkatadri Institute of Technology   Nov 2021 – Apr 2025
B.Tech in Computer Science Engineering - Artificial Intelligence and Machine Learning   Guntur

PROFESSIONAL EXPERIENCE

Full Stack Developer at Brainovision ~ Intern   Jul 2024 – Dec 2024
- Designed and implemented a part of the Django application for real-time monitoring and management   Hyderabad
  of 50+ pressure pumps across multiple locations and optimizing operational efficiency through self-
  initiated alerts and data analytics.
- Tracked and analyzed performance data from 50+ pumps, optimizing operational efficiency and
  reducing latency of the dashboard by 18% by modifying data retrival algorithms.
- Worked on **Generated automated notifications and reporting** using **Django Channels**, reducing
  response times to critical issues by 30% and enhancing maintenance scheduling accuracy through real-
  time alerts and event-driven architecture.

SKILLS

Programming Languages — Python, HTML, CSS

Core CS — Data Structures and Algorithms, TCP/IP Networking, Computer Networks, Operating Systems, OOPS

Web Frameworks — Django, Streamlit

Databases — MySQL, SQL,Familiarity with NoSQL databases

Machine Learning & AI — Machine Learning, Deep Learning, Natural Language Processing, Generative AI (GenAI) Tools

PROJECTS

EasyWrite   Jul 2024 – Oct 2024
LlamaIndex, DistilBERT, FastAPI, LovableAI | Persnoal |
- **Built and deployed AI models for NLP tasks**, utilizing **Llamaindex** for advanced text generation,
  achieving a 95% relevance rate in content outputs and significantly improving text coherence and
  contextual accuracy.
- Engineered web applications that integrated **advanced NLP models** for **real-time text generation**
  and sentiment analysis, resulting in a **enhancement** in user engagement through tailored responses and
  relevant content delivery.
- Developed the frontend using **Lovable AI** and backend with **Python**.

SpeakEazy: Nov 2023 – Apr 2024
Deep Learning, Mediapipe, TensorFlow, LSTM, OpenCV | Team Lead |
- Developed SpeakEazy, a **DL-powered system** to bridge the gap between deaf and mute' "**Analysis
  Paralysis**"by analyzing their actions and Body language using Deep Learning
- Implemented MediaPipe for **accurate body coordinate extraction**, enhancing feature precision by
  20%, and allowing for better movement tracking and pose detection in real-time application.
- Optimized model accuracy by testing multiple architectures, achieving **up to 90% performance**
  through iterative tuning and evaluation using the **cross-validation method**, ensuring robust and
  reliable predictions across diverse datasets.
- Integrated all features into Django, streamlining the project's structure and ensuring a cohesive user
  experience, while maintaining scalability and ease of future updates.

ACHIEVEMENTS

- Solved over *200+ LeetCode problems*, showcasing strong algorithmic and coding proficiency.
- Wrote an *Unofficial Expansion* for the game *RDR2,* adding innovative gameplay elements.
- Conducted a *Hackathon* in my branch, fostering innovation and collaboration among participants
- **Qualified GATE 2024** in First Attempt with AIR **15,202**.

CERTIFICATES

- Google Associate Cloud Engineer
- RPA developer by UiPath
- Deep Learning by IIT Ropar
- Salesforce Developer Certification by Trailhead