ARYAVARDHAN SINGH

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SUMMARY

I am a passionate Computer Science student at Vellore Institute of Technology, specializing in Machine Learning, Deep Learning and Natural Language Processing. With hands-on experience in building impactful projects, I aim to leverage my skills in Java, Python, and machine learning frameworks to create innovative solutions. I am eager to apply my knowledge in real-world applications, particularly within the fields of AI and data science.

SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, SQL, R, Julia
Technologies/Frameworks: Flask, Scikit-Learn, Pytorch, TensorFlow, XGBoost, Keras
Database: MongoDB, Redis, MySQL, PostgreSQL, SQLite
Version Control and Tools: Git, Github, Postman, Docker, Jenkins, Figma, REST APIs
Other tools: FFmpeg, LaTeX, Regex, Obsidian, tmux

EDUCATION

Vellore Institute of Technology Andhra Pradesh, Amaravati   Aug   2022   -   July   2026
BTech Computer Science and Engineering   CGPA:8.3

Sri Chaitanya Techno School, Chennai   Aug   2022   -   July   2026
Grade 12

PROJECTS

Chakshu [NLP, Flask, BERT, Scikit-Learn]
• Web app to assist law enforcement in detecting online threats (e.g., scammers, extremists).
• Built backend using Flask; implemented BERT-based NLP to analyze chat logs from social media platforms.
• Enabled semi-automated threat detection pipeline; reduced manual screening by 70%.
• Finalist submission for Smart India Hackathon 2024.

MANDAP [PyTorch, Pandas, Deep Learning]
• Predictive model for divorce probability and alimony estimation in Indian legal scenarios.
• Engineered dataset from multiple government sources and legal documents.
• Built and trained deep learning model on income, marriage duration, dowry data.
• Achieved MAE of ₹8.2k on alimony prediction; validated on custom test cases.

COURSES AND CERTIFICATIONS

• Oracle Cloud Infrastructure 2025 Certified Generative AI Professional   Oracle, 2025
• AWS Academy Graduate - AWS Academy Cloud Foundations   AWS, 2024
• AWS Academy Graduate - AWS Academy Cloud Architecting   AWS, 2024

TECHNICAL FOCUS

• Deep Learning and Reinforcement Learning.
• Parallel Programming and GPU Architecture.
• Applied Machine Learning and Statistical Modeling.
• Computer Vision and Natural Language Processing.