Veankata Krishnan S M

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Summary

Pre-Final year B.Tech student in Computer and Communication Engineering with strong foundation in Machine Learning, Data Science. Experienced in applying ML algorithms (Random Forest, CNNs, SVM) to real-world datasets, achieving high-accuracy results. Skilled in Python, TensorFlow & Scikit-learn basics with hands-on experience in research-oriented academic project involving stress detection. Passionate about leveraging AI to solve large-scale, real-world challenges.

Education

Amrita Vishwa Vidyapeetham *Aug 2023 - July 2027*
B.Tech in Computer and Communication

- CGPA: 8.3/10.0
- **Coursework:** Foundations of Data Science, Machine Learning, DSA, DBMS

DAV Senior Secondary School *June 2020 - June 2022*
All India Senior School Certificate Examination

- Percentage : 88.4%
- **Coursework:** Biology, Physics, Chemistry, Mathematics

DAV Senior Secondary School *Aug 2008 - April 2020*
All India Secondary School Examination Certificate Examination

- Percentage : 90.4%
- **Coursework:** Science, Mathematics, Social Sciences, English, Tamil

Projects

Comphrensive Stress Detection for Automobile Drivers *Project Report*

- Designed a machine learning-based system to classify driver stress using physiological signals such as ECG, GSR, EMG, and respiration data.
- Applied classification algorithms including Random Forest, SVM, KNN, and CNN; achieved **92% accuracy** using Random Forest.
- Preprocessed real-world datasets and demonstrated practical application of AI in road safety and real-time stress monitoring.
- Tools and Technologies Used: Python, Scikit-learn, matplotlib, TensorFlow, Jupyter Notebook

Ambulance Service System *Project Report*

- Developed an emergency dispatch system using graph-based modeling of road networks to compute optimal ambulance routes.
- Implemented and compared three pathfinding algorithms: Unidirectional, Bidirectional, and Multi-directional Dijkstra's.
- Designed a graphical user interface (GUI) to accept emergency inputs, visualize optimal paths, and display real-time results.
- Tools and Technologies Used: Python, Tkinter, matplotlib, NumPy, Spyder,

Technologies & Skills

Languages: C, Python, SQL, HTML, CSS, Javascript(Basics), Java (Basics)

Machine Learning & Data Science: NumPy, Pandas, Tensorflow & ScikitLearn(Basics), Matplotlib, Jupyter Notebooks, Spyder