ALEX DANDAMUDI

Guntur,Andhra Pradesh

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EDUCATION

Vellore Institute of Technology   **07/2021 – Current**
*Bachelor of Technology - **CGPA** - **7.35***   *Amaravati, India*

Narayana   **06/2019 – 05/2021**
*Andhra Pradesh Board of Intermeditate Education - **Percentage** - **76.1%***   *Guntur, India*

PROFILE

Computer Science and Engineering graduate with a focus on Artificial Intelligence and Machine Learning. Skilled in Python, Java, and web technologies, with hands-on experience in IoT and machine learning projects. Seeking an entry-level software development role to apply technical expertise and contribute to impactful solutions while expanding my skills in emerging technologies.

SKILLS

Programming	Java, Python, SQL(MySQL)
Core Subjects	Object Oriented Programming(OOPs), DataBase Managment Systems(DBMS), Operating Systems(OS), Computer Networks(CN)
Developer Tools	PyCharm, VS Code, Git, Google Collab
Web Development	HTML, CSS, Javascript
Machine Learning	Python with Numpy and Pandas
Libraries	Matplotlib, NumPy, NLTK, Pandas, TensorFlow, Scikit-learn
Data Visualization	MS-Excel, Tableau

PROJECTS

Heart Rate Variability As A Predictor Of Emotional States | Machine Learning   02/2024– 04/2024

- Built a machine learning solution to predict emotional states using HRV data from wearable devices.
- Implemented preprocessing, feature extraction, and model training pipelines, achieving 84% accuracy with AdaBoost.
- Conducted comparative analysis of classifiers (Random Forest, Decision Tree) to optimize performance.
- Explored applications in mental health and affective computing.
- ***AdaBoost, Comparative Analysis, Random Forest, Decision Tree, Flask***

Citizen Journalism Platform | Web Development   07/2023 – 08/2023

- Developed a user-driven platform for sharing verified news and perspectives.
- Built a responsive interface with React.js and implemented real-time features using Socket.io and Node.js.
- Secured user authentication with Passport.js and established a robust content verification system.
- Incorporated user feedback to improve scalability and usability.
- ***React JS, Node JS, Mongo DB, Socket.io, Passport JS***

Smart Road Pothole Detection | Machine Learning and Cloud Computing   06/2023 – 08/2023

- Designed a cutting-edge pothole detection solution leveraging IoT cloud and mobile integration with Python; delivered alerts within 5 seconds, improving response times and user engagement by 40%.
- Designed a GPS-enabled camera robot for pothole detection, processing video feeds at 15 frames per second with 80% precision, integrating IoT cloud capabilities.
- ***ESP32 CAM, Alerting and Reporting , Pothole Detection Algorithm***

CERTIFICATIONS

- **Externship Certificate:** Artificial Intelligence and Machine Learning Powered by Google Developers
- **ETHNUS - MERN Full Stack**