VENKATA NITHIN INTURI

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OBJECTIVE

Final-year B.Tech Computer Science student with a strong foundation in Artificial Intelligence, Machine Learning, and Python. Seeking a Software Engineer role to apply analytical and programming skills in developing innovative solutions and contributing to impactful software projects.

EDUCATION

Bachelor of Computer Science and Engineering, 2022-2026
Kalasalingam Academy of Research and Education, Srivilliputtur, India *CGPA:7.65*

Relevant Coursework: Machine Learning, Data Structures and Algorithms, Database Management, Probability and Statistics.

SKILLS

Technical Skills	Python, SQL, Java, C, Excel
Framework/Libraries	Numpy, Pandas, Matplotlib
Technologies	Machine Learning, Artificial Intelligence, Neural Networks, Image Processing
Soft Skills	Problem-Solving, Critical Thinking, Communication, and Teamwork

PROJECTS

Biodegradable Plates Innovation from Eggshell Powder. *Jan 2024 - May 2024*

- Produced biodegradable plates using finely ground eggshell powder combined with natural binders such as starch and cellulose fibers. Conducted extensive mechanical strength, water absorption, and biodegradability testing to optimize plate durability and functionality. Designed and fabricated prototypes to evaluate practical usability, aiming to provide an eco-friendly, compostable alternative to single-use plastic plates, thereby promoting sustainable waste management and reducing environmental pollution.

Twitter Sentiment Analysis . *Aug 2024 - Dec 2024*

- Built a sentiment analysis model to classify tweets into positive, negative, or neutral categories using natural language processing (NLP) and machine learning techniques. Preprocessed a Kaggle dataset by removing stop words and symbols, leveraging WordNet for enhanced word categorization. Implemented a Bernoulli Naive Bayes classifier, achieving 70% accuracy.

Image Caption Generator. *Feb 2024 - May 2024*

- Designed an image captioning system using a CNN-based feature extractor combined with an RNN-based decoder. Integrated a Vision Transformer (ViT) for enhanced image feature extraction and utilized AutoTokenizer for efficient token generation, streamlining the end-to-end pipeline. Implemented an encoder-decoder architecture to accurately process images and generate descriptive textual captions.

Smart Helmet for Worker Safety in Underground Mines. *Nov 2023 - Dec 2023*

- Built an IoT-based smart helmet to enhance worker safety by monitoring underground conditions using gas, temperature, and light sensors. Configured alarms to trigger at hazardous gas levels above 300 ppm and temperatures exceeding 60°C, while automatically activating lights in low-visibility environments. Enabled real-time data transmission to ground personnel via Bluetooth for continuous supervision and communication.

CERTIFICATIONS

- Design and Analysis of Algorithms and Database Management Systems certifications by CodeChef *Nov 2024*
- Database Foundations and Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate certifications by Oracle Academy *Feb 2024*
- Awarded Second Prize for presenting the research paper *"Biodegradable Egg Shell Plate"*, focused on sustainability through the development of biodegradable plates using eggshell waste. *May 2024*