

BHANU SHANKAR GUBBA

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Skills

- Python | C | JavaScript | React | Git | Frontend | Express | NodeJS | MySQL | MongoDB | Tableau | Firebase

Internships

Developer Virtual Experience Program

Accenture

- Excelled in understanding client priorities and analyzing their needs while demonstrating proficiency in technical skills such as defining requirements, designing changes to existing architectures, and scaling on-premises systems to the cloud. Additionally, I honed my abilities in reading and understanding code, debugging algorithms, conducting unit and user acceptance testing, and performing security maturity assessments, ensuring the integrity and efficiency of software development lifecycles while prioritizing data privacy and security.

Education

Masters

University College Birmingham

Birmingham, UK 10/2023 - 01/2025

- Major in Computer Science

Projects

Gesture Based Input System

- Developed the 'Gesture-Based Input System' using deep learning and machine learning techniques. Utilized **Convolutional Neural Networks** (CNN) algorithms for gesture classification. Leveraged libraries such as **TensorFlow**, **Keras**, **NumPy**, **PyGame**, and **OpenCV**. The system allows users to interact with a computer using hand gestures, enabling intuitive control and input.

Face Mask Detection Using Deep Learning

- Developed a real-time face mask detection system to prevent the spread of COVID-19. Leveraged a basic Convolutional Neural Network (CNN) model using **TensorFlow**, **Keras**, **Scikit-learn**, and **OpenCV**. The system processes webcam input, identifies faces, and classifies them as wearing or not wearing masks. Pre-processing techniques, including grayscale conversion and image resizing, enhance accuracy. The model achieved a validation accuracy of 96%. When an individual is detected without a mask, a red rectangle appears around their face, while a green rectangle indicates mask-wearing.

Council Website Using Frontend

- Designed and developed a dynamic council website using **HTML**, **CSS**, and **JavaScript**. The website offers a range of services for the public, seamlessly connected to a backend MySQL database.

To Do List Website with OOPS Concepts

- Developed an undergraduate-level to-do list application to improve students' academic performance. The application includes account creation, task management (addition, modification, deletion), priority marking, and sorting by date. Implemented using **object-oriented programming principles** with classes and objects.

Design and implement Data Warehouse

- Designed an ERD for the SMP Retail data warehouse, modeling key entities and relationships to enhance customer insights and product sales analysis. Built and optimized the data warehouse on Snowflake with fact and dimension tables for store performance, sales, and customer behavior analysis. Leveraged BI tools to clean, transform, and resolve data quality issues, creating dashboards for clear data interpretation. Additionally, identified ethical concerns in data privacy and bias, proposing strategies for mitigation.

Certifications

- Machine Learning with Python
- Advanced data structures and algorithms in Python
- AI For Everyone
- Capstone (React App)
- Web design
- Version Control
- Working with data