

SHRUTI BRAHMA

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OBJECTIVE

Data Science Specialist with a strong focus on AI and Machine Learning (AIML) research and development. Proficient in advanced machine learning, statistical analysis, and data visualization with expertise in Python, TensorFlow, SQL, and a wide range of machine learning models, including supervised and unsupervised learning techniques like clustering. Experienced in neural networks, including CNNs and RNNs, with strong skills in performance tuning and feature engineering to meet business needs. Skilled in cloud computing, programming, and version control (Git). Recognized for presenting the “Best Paper” at the International Conference on AI-AICTA’23 for research on neural networks in malware detection. Adept at transforming complex data into actionable insights and driving innovative solutions.

EDUCATION

M.S. in Data Science, University of New Haven

Aug 2024 - Present

B.Tech in Computer Science and Engineering, JNTUH University

July 2020 - June 2024

SKILLS

Languages	C/C++, Python, HTML/CSS, Kotlin
ML	TensorFlow, NLTK, YOLOv5, OpenCV, Neural Networks, NLP, Pandas
Tools	Android Studio, Data Visualization, Advanced Data Analysis, SQL
Data Science	Machine Learning Algorithms, Predictive Modeling, Feature Engineering, Data Cleaning

EXPERIENCE

AI Engineer

Apr 2024 – Sept 2024

Purview

Developed assistive technology for Vuzix Smart Eyewear, including emergency apps and object detection via voice commands. Worked on integrating RTSP for drone technology.

Cyber Security Engineer

Jul 2023 - Oct 2023

CDAC

Conducted vulnerability scanning with Nmap and Burp Suite. Addressed Log4j vulnerabilities and implemented secure data transfers via MoveIt.

PROJECTS

- **Virtual Voice Assistant** Mar 2024
Built a virtual assistant for JNTUHHUCES, leveraging NLP with 95% query accuracy.
- **Pulmo-Detect Cancer Detection** Aug 2023
Developed a convolutional neural network model for lung cancer detection in an inter-college hackathon.
- **Fall Detection and SOS System** May 2024
Created an Android app to detect falls using mobile sensors and send SOS alerts with location.
- **Real-Time Object Detection App** June 2024
Trained a TensorFlow object detection model with OpenCV, integrated into a mobile app with voice commands.
- **Driver Drowsiness Detection System** Jan 2024
Developed a driver drowsiness detection system for JPMorgan Chase using computer vision and machine learning techniques.

RESEARCH

Impact of Activation Functions on Malware Detection

Feb 2023 - Dec 2023

Presented at AICTA’23, an international AI conference, and awarded “Best Paper Presented”. Published in SCOPUS-indexed Springer Series.

ACHIEVEMENTS

- Achieved 92% in TCS NQT 2024 Aptitude and Reasoning Exam.
- Selected and offered as Software Engineer in TCS Digital 2024.
- Awarded “Outstanding Paper” at AICTA, International Conference, PEC Chandigarh 2024.
- Qualified in National Engineering Olympiad - 2022.