BHARATH D

Location: Chennai, TamilNadu, India
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Experience

Software Engineer *Annuity Risk India, Chennai* Feb 2024 - Present

- Integrated **AI/ML-powered KYC verification** into the app, automating identity verification and **fraud detection**, leading to improved accuracy and efficiency.
- Worked on a **Data Analysis application** by integrating **Flutter with R**, enabling advanced statistical computations and visualization directly within the mobile app.
- Contributed to the development of a **freelancing platform similar to Fiverr**, specifically designed for **Chartered Accountants (CAs)** to find and offer professional services.
- Developed and optimized **Forex and compliance applications** for banking institutions, ensuring adherence to financial regulations and improving transaction monitoring.

Education

B.Tech Artificial Intelligence and Data Science CGPA : 8.65
Mepco Schlenk Engineering College , Sivakasi , Tamil Nadu *2020-2024*

Technical Proficiencies

Languages	:	C, C++, Python, R, Java, TypeScript , SQL
Frameworks	:	PyTorch, TensorFlow, PySpark, Flutter, NLTK, Node.js , spaCy , Scikit , OpenCV , XGBoost
Tools	:	Git , MySQL, PostgreSQL, MongoDB, Cassandra, Neo4j, Redis , Docker , Tableau
Specialized Skills	:	Statistical Analysis, Regression, Classification, Time Series Analysis, Computer Vision, NLP

Projects

TalentScout *Link* Feb 2025 - Mar 2025

- Developed an AI-powered Screening Chatbot that dynamically generates **technical questions** based on job-specific skills.
- Implemented **vector similarity-based answer evaluation** for precise scoring and **adaptive difficulty levels** for better assessment.
- Built a **job application system** with candidate tracking, automated ranking, and a **leaderboard**.
- Designed **Learning Mode** for skill enhancement and **Screening Mode** for real-time AI-driven interviews.
- Integrated **SQLite database** for managing job listings, applications, and interview results.

Brain Tumor Classification using SWIN-LSTM Model *GitHub* Dec 2023 - Apr 2024

- Developed an **automated deep learning framework** for **MRI brain tumor detection**, integrating **Swin Transformer** for spatial feature extraction and **LSTM** for temporal modeling.
- Enhanced tumor classification by **capturing spatial relationships** in MRI images and **modeling temporal dependencies** in sequential data.
- Addressed key challenges such as **class imbalance, segmentation accuracy**, and computational efficiency through advanced deep learning techniques.
- Benchmarked the model against **state-of-the-art methods**, demonstrating improved **accuracy, robustness, and interpretability**.

Vehicle Speed Detection *GitHub* Apr 2023 - May 2023

- Developed a **real-time Vehicle Speed Detection system** using the **YOLOv8** object detection model in Python.
- Implemented **object tracking and speed estimation** using video processing techniques.
- Optimized detection accuracy by fine-tuning the YOLOv8 model on a custom dataset.

Certifications

- AWS Certified Cloud Practitioner - **AWS**
- Data Science for Engineers IIT Madras - **NPTEL**
- Natural Language Processing IITKGP - **NPTEL**