

BHARATH D

Location: Chennai, TamilNadu, India

LinkedIn | GitHub | Leetcode | Portfolio | Email: duraibharath2002@gmail.com | Mobile: +91 6385201842

EXPERIENCE

Software Engineer	Annuity Risk India, Chennai	Feb 2024 - Present
<ul style="list-style-type: none">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.		

TECHNICAL PROFICIENCIES

Languages	: C, C++, Python, R, SQL, Java, TypeScript, Shell Scripting
Frameworks	: PyTorch, TensorFlow, FastAPI, PySpark, Apache Airflow, Flutter, React.js, Node.js, Streamlit
Libraries	: Pandas, NumPy, scikit-learn, XGBoost, CatBoost, Hugging Face Transformers, OpenCV
Databases	: SQL (Oracle, MySQL, PostgreSQL, SQL Server), NoSQL (MongoDB, Cassandra, Neo4j), Redis
Cloud & MLOps	: Azure Machine Learning Studio, Databricks, MLflow, AWS SageMaker, Kubernetes, Docker
Dev Tools	: Git, CI/CD (Jenkins, GitHub Actions), Tableau, Weka, Orange
Specialized Skills	: Statistical Analysis, Regression, Classification, Time Series Analysis, Computer Vision, NLP

PROJECTS

TalentScout	Link	Feb 2025 - Mar 2025
<ul style="list-style-type: none">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.Developed an interactive Streamlit UI and successfully deployed the application on Streamlit Cloud.		
Brain Tumor Classification using SWIN-LSTM Model	GitHub	Dec 2023 - Apr 2024
<ul style="list-style-type: none">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.Deployed the framework using MLflow and Azure Databricks for scalable training, evaluation, and tracking of experiments.		
Vehicle Speed Detection	GitHub	Apr 2023 - May 2023
<ul style="list-style-type: none">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.		

EDUCATION

Mepco Schlenk Engineering College , Sivakasi , Tamil Nadu

B.Tech Artificial Intelligence and Data Science

CGPA : 8.65

2020-2024

CERTIFICATIONS

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