Ajinkya Shekhar More

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EDUCATION:

Purdue University, Master's in Computer Science — **Fort Wayne, IN, USA**
Coursework: Algorithm Design and Analysis, Natural Language Processing, Software Engineering. (August 2023 - May 2025)

University of Mumbai, Bachelors in Mechatronics Engineering — **Mumbai, India, CGPA: 7.5/10**
Coursework: Computer Vision, Operating Systems, Robotics Systems (July 2017 - June 2021)

SKILLS:

Languages and Models: Python, C++, Java, PL-SQL, Tableau, Hadoop, Verilog.
Web Application: HTML5, CSS3, JavaScript, Node, Express, React, StreamLit, Flask.
Databases: MongoDB, PLSQL, SQL, Oracle.
libraries: Pandas, OpenCV, TensorFlow, Matplotlib, ScikitLearn, Pickle, Keras, NumPy
Operating Systems: Microsoft Windows, Mac OS X, Linux.
Tools and Technologies: Toad, Jira, Visual Studio Code, PyCharm, Postman, Parasoft SOA, SOAP UI, Microsoft Excel, Microsoft Word, Microsoft Office, Microsoft PowerPoint, SolidWorks, Arduino IDE, Xilinx IDE.
Soft Skills: Presentation, Project Management, Leadership, Teamwork, Documentation and Reporting, Team Management.

WORK EXPERIENCE:

Tata Consultancy Services, Assistant System Engineer — **Mumbai, India**
Lead Test Analyst | Project: **CIBC** (July 2021 - August 2023)

- Proficiently wrote **SQL queries** to extract and manipulate data from **RDBMS databases**, ensuring data integrity and quality.
- Demonstrated a solid understanding of **statistics and hypothesis testing**, contributing to data analysis and validation.
- Leveraged Python in conjunction with MySQL to develop logic for the **Equifax and Transunion Unsecured Scorecard project**, enhancing data processing capabilities.
- Acted as a **key stakeholder and Team Lead** in the development and testing phases of the GVS LTV Breach Project, overseeing a team of **18 members** and actively contributing to defining and refining use cases to meet project objectives.
- Successfully managed two critical projects, **GVS LTV Breach and Secured Scorecard** for the Canadian Imperial Bank of Commerce (CIBC), ensuring their timely completion and high-quality deliverables.
- Employed advanced **data analytics** techniques using **Microsoft Excel** to **predict credit scores** based on various parameters and analyzed how tradelines influenced credit score changes, providing valuable insights for risk assessment and prediction.
- Conducted extensive **API Testing** by executing over **300 test cases per da**y using **Postman**, ensuring the robustness and reliability of the systems for the Fico Scorecard (Equifax/Transunion) project.

RELATED PROJECTS:

Heart Disease Prediction using Logistic Regression and Random Forest, Git Link
Technology Used: Random Forest Classifier, Python, StreamLit, GIT.

- The main goal was to build a predictive model for assessing the 10-year risk of coronary heart disease (CHD) using data analysis and machine learning techniques.
- Prepared and curated a comprehensive dataset, conducted thorough data preprocessing, employed **Logistic Regression** and **Random Forest models**, standardized data, assessed model performance using confusion matrices.
- The project was made keeping in mind the substantial contributions to healthcare analytics, supporting WHO's public health mission, and yielded accurate predictive models, showcasing effective collaboration and a commitment to advancing data science and machine learning.
- The **Accuracy** of this model was found to be **approximately 86%** while we can use this method to determine and predict the possibility of developing CVD. It does not serve as replacement to medical care or professional care but serves as precautionary measurement to improve lifestyle.

Next Word Prediction using NLP Techniques, Git Link
Technology Used: NLTK, TensorFlow, Python, GIT, StreamLit.

- The main goal of this project was to build a simple yet effective next word prediction system for personal websites using NLTK and Tensor flow which can be imported by any personal website to redirect their audience to specific content.
- Initiated the project by performing in-depth analysis and preprocessing of a text dataset, encompassing **tokenizatio**n and **data cleaning**, to enable the training of a **Long Short-Term Memory (LSTM)** based deep learning model.
- Designed a sequential model, including an **embedding layer**, **LSTM layers**, a hidden layer, and an **output layer** with **SoftMax activation**, to perform next-word predictions.
- Successfully developed a next-word prediction model, showcasing notable progress in **150 epochs** and achieving satisfactory accuracy of approximately **67%** while it can be used but pretraining of the model is required to be used beforehand.

Traffic Sign Recognition,
Technology Used: CNN, Keras, Python, Matplotlib, Pandas, OpenCV, TensorFlow. Git Link

- The main goal of this project was to build an automated traffic sign system which can warn drivers during monsoon and winter as the visibility is drastically reduced leading to more accidents.
- Utilized **TensorFlow** and **OpenCV** to build, train, and optimize a **CNN model** for traffic sign recognition, including dataset preparation, data augmentation, and early stopping for enhanced performance. The data set consists of 58 Classes of signs.
- Successfully developed a CNN-based Traffic Sign Recognition system, achieving high accuracy and demonstrating potential in real-world deep learning applications for enhanced road safety and autonomous driving technology..

PAST AND FUTURE PROJECTS:

- **Robotics:** 64 Bit Processor Architecture, 6DOF Autonomous Robotic Arm, Vehicle Tracking System.
- **NLP:** Automated Grading System for Brightspace assignment using NLP: (Expected: December 2023)
- **Software Engineering:** Designing a Career choice prediction model using ML Techniques: (Expected: December 2023)

ROLES AND RESPONSIBILITIES:

- **Co-Founder** of Phoenix Robotic Club and NHITM Robotics club, NHITM, Thane / 2017 - 2018, INDIA.
- **Project Lead** at Tata Consultancy Services for GVS LTV Breach Project, TCS, Powai / 2022 - 2023, INDIA.
- Awarded the **"Best Team Award"** and **"On the Spot Award"** for GVS LTV Breach and Petra Project Tata Consultancy Services Powai / 2022 - 2023, INDIA.