PRIYAL SHAH

CHARLOTTE, NC

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EDUCATION

University of North Carolina at Charlotte, MS in Information Technology | Charlotte, USA   **August 2023- May 2025**
GPA: 3.8/4

Sardar Vallabhbhai Patel Institute of Technology, BE in Information Technology | Vasad, India   **July 2019 – June 2023**
CGPA: 9.10/10

SKILLS

Programming Languages: Python, SQL, R
Database & Cloud: MySQL, MongoDB, Oracle, AWS
Data Analysis and Manipulation: Exploratory Data Analysis(EDA), NLP, Pandas, NumPy, Scikit-learn.
Data Visualization: Tableau, PowerBI, Plotly, Seaborn, matplotlib, Streamlit.
Web Technologies: React.js, JavaScript, Node.js, EJS, HTML, CSS, APIs.
Tools: Github/Git, Jupyter Hub, Google Collab, VS Code, PowerQuery, MS Excel(pivot tables, sorting, V-Look Up), GitHub Copilot, DagsHub.
Agile Frameworks: SDLC, SCRUM.

WORK EXPERIENCE

UNC Charlotte   **August 2024 – Present**
Instructional Assistant

- Assisted in developing course materials for Computer Science programs, resulting in 75% improvement in student comprehension.
- Facilitated interactive STEM workshops for more than 50 students, enhancing problem-solving skills while fostering a collaborative environment.
- Managed course content, grading and communication using Canvas applications, improving workflow efficiency for both instructors and students.

OMDENA   **April 2024 – September 2024**
Machine Learning Engineer

- Developed AI-powered travel advisors for the Paris Olympics leveraging **LLM models** and **OpenCV**, enhancing user experiences with personalized recommendations and dynamic visual analyses.
- Conducted extensive exploratory data analysis (EDA) on real-time housing datasets for Paris affordability studies, utilizing Python, **Beautiful Soup** for web scrapping, and presenting results through Streamlit dashboards and PowerBI.
- Collaborated in cross-functional, international teams to design and implement scalable machine learning solutions, ensuring seamless integration and high-quality deliverables.
- Demonstrated expertise in data-driven problem solving and communication, actively contributing to team discussions, planning, and implementation strategies in a collaborative setting.

ENLIGHTEN INFOSYSTEMS   **October 2022 – June 2023**

- Developed and maintained a robust identity verification application using **MVC.NET** technology, streamlining verification processes for organizations and ensuring compliance with regulatory standards.
- Enhanced application performance by 25% through optimization of backend workflows and integration of efficient data handling techniques.
- Designed and implemented a secure identity verification framework that reduced verification time by 30%, enhancing user experience and operational efficiency.
- Collaborated with cross-functional teams to test and deploy the system, achieving a successful roll-out across multiple client organizations with minimal downtime.

PROJECTS

AWS Powered Fisher Insights

- Designed and implemented an end-to-end data pipeline on AWS, leveraging services such as **S3**, **Glue**, and **Athena** to ingest , transform and query multi-terabyte datasets in Apache Parquet format, enabling efficient data analysis.
- Developed optimized ETL workflows using **AWS Glue crawlers** and Pandas to normalize and integrate data from heterogenous sources, ensuring schema consistency and improving query performance by 30%.

Photo Sharing Web Application

- Built a full stack Photo Sharing Web Application using **React.js** for the frontend, **Node.js** for API development, and **MongoDB** for database management, enabling seamless photo uploads and user interactions.
- Integrated core features like photo sharing, liking, and commenting functionalities, enhancing community engagement and creating a collaborative user experience.

Meet Up Application

- Developed a dynamic MeetUp application using HTML, CSS, and JavaScript for the frontend, combined with **EJS templating** to create interactive and user-friendly web pages.
- Implemented backend functionality with Node.js and MongoDB, enabling seamless event creation, user registration, and data management with secure API endpoints.

F1 Race Analysis

- Conducted exploratory data analysis (EDA) on F1 race datasets using Python, **NumPy**, and **Pandas**, identifying key performance trends and improving predictive model accuracy by 20%.
- Developed machine learning models with **Scikit-learn** to predict race outcomes, leveraging feature engineering and **advanced statistical techniques** to enhance prediction reliability.