Nishit Shah

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EDUCATION

Master of Science in Computer Science **Aug 2023 - May 2025**
University of North Carolina at Charlotte, North Carolina, United States

Bachelor of Technology in Computer Science and Engineering **Jul 2019 - May 2023**
Vellore Institute of Technology, Vellore, Tamil Nadu, India

TECHNICAL SKILLS

Programming	: Python, R, MySQL, PostgreSQL, MongoDB, JavaScript, Java
Tools	: Tableau, Power BI, Microsoft Excel, Microsoft Project, Looker Studio, Google Cloud Platform, BigQuery, Git, Mage AI, Postman, REST APIs, Jira
Libraries and Frameworks	: Pandas, NumPy, PyTorch, Scikit-learn, Tensorflow, PySpark, Seaborn, Matplotlib, React, Node, Express, Next, Ggplot2
Core Competencies	: Data Analysis, Data Visualization, Data Engineer, Cloud Technologies, Big Data, CI/CD Pipelining, Data Structures, Algorithms, Full Stack Development, API Development, Collaboration, Analytical

PROJECTS

Flight Delay Insights: Analysis and Predictions | *[Pandas, Seaborn, ML modeling, Tableau]* **Feb 2024**

- Created an **end-to-end aviation delay analysis pipeline** by preprocessing large datasets, applying machine learning models to predict flight delays and cancellations, and presenting findings through interactive Tableau dashboards.
- Generated data-driven insights for operational decision-making by identifying key delay patterns, achieving **92.5% classification accuracy**, and crafting intuitive visualizations for effective communication.

Uber Data Engineering Pipeline | *[Python, SQL, Google Cloud, Looker Studio]* **Dec 2024**

- Developed a comprehensive **data model** for the Uber dataset, transforming raw CSV files into relational table structures using **Python and SQL**, and built a scalable data pipeline with **Mage AI** to process and transform over 100,000 ride records, enabling efficient exploratory analysis in **BigQuery**.
- **Visualized** key trends and patterns in Uber ride data using **Looker Studio**, providing actionable insights into ride operations and **improving query performance by 15%.**

London Bike Sharing | *[Python, SQL, Tableau]* **Nov 2024**

- Executed an **end-to-end data analysis** project on London Bike Sharing data, leveraging **Python and Kaggle library** for data extraction, followed by data cleaning and standardization to ensure data accuracy and consistency for analysis.
- Conducted exploratory data analysis using **SQL** to identify key usage patterns and trends, and prepared Tableau dashboards to visualize insights, enabling actionable business decisions and enhancing operational efficiency.

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistantship **Jan 2024 – Present**
University of North Carolina at Charlotte *Charlotte, NC*

- Assisted Professor Bryan Dobbs in conducting interactive and engaging lectures for the **Software Development and Data Science projects**, providing valuable insights into methodologies and best approaches.
- Facilitated hands-on coding sessions, leading to a collective improvement in student project grades by **an average of 10%** while addressing individual troubleshooting challenges that enhanced overall technical understanding.

Web Development Intern **Dec 2022 - Feb 2023**
Phable *Bangalore, India*

- Enhanced the live website and microsite of Phable using **Next.js, HTML, CSS, and SCSS**, leading to a **20% increase** in user engagement and a **10% growth** in overall traffic. Cooperated with senior developers to resolve frontend and backend bugs, ensuring seamless functionality, and wrote **Node.js** scripts to optimize backend data operations.
- Implemented **Agile** methodologies through Jira, streamlining task management and reducing task completion time **by 20%.** Actively participated in **sprint planning**, and task allocation demonstrating strong organizational and teamwork skills.

Software Engineer Intern **May 2022 - Jun 2022**
Softwel Pvt. Ltd. *Kathmandu, Nepal*

- Developed a user data storage web application, harnessing the power of **C#.NET** development and **SQL** achieving a **10% reduction** in data success time. Translated design specifications into code, resulting in a **25% reduction** in system bugs.
- Collaborated with senior software engineers to evaluate application modules, contributing **15% increase** in module efficiency and streamlined user experience ensuring flawless operation and peak performance of the software.

CERTIFICATIONS

Coursera: Google Data Analytics *[Data Analysis, Case Studies, Data Visualization, SQL, Problem-Solving, R, Data Aggregation]*
Datacamp: Introduction to Statistics in Python [*Correlation, Statistical reasoning, Scatterplot, Probability, Distribution*]