

# 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

<b>Programming</b>	: Python, R, MySQL, PostgreSQL, MongoDB, JavaScript, Java
<b>Tools</b>	: Tableau, Power BI, Microsoft Excel, Microsoft Project, Looker Studio, Google Cloud Platform, BigQuery, Git, Mage AI, Postman, REST APIs, Jira
<b>Libraries and Frameworks</b>	: Pandas, NumPy, PyTorch, Scikit-learn, Tensorflow, PySpark, Seaborn, Matplotlib, React, Node, Express, Next, Ggplot2
<b>Core Competencies</b>	: 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 2025

- 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]