

# Divij Shah

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## EDUCATION

North Carolina State University, Raleigh, NC, USA

Aug 2023 – May 2025

Masters in Computer Science (Concentration in Data Science)

GPA: 3.4/4.0

*Coursework: Design & Analysis of Algorithms, Software Engineering, Deep Learning & Neural Networks, Cloud Computing, HCI, DBMS, Statistics, Automated Learning & Data Analysis, Object Oriented Programming & Design.*

Pandit Deendayal Energy University, Gandhinagar, GUJ, IND

Aug 2019 – May 2023

B.Tech in Computer Engineering

GPA: 3.9/4.0

## SKILLS

**Languages:** Python, C++, C#, SQL, Swift, JavaScript, GoLang

**Frameworks:** ASP.NET, Django, React.js, Node.js, Express.js, Next.js, Hadoop

**Tools & Technologies:** GitHub, Tableau, Spark, Power BI, Figma, RapidMiner, Airflow, SSMS

**Databases & Cloud:** MySQL, MongoDB, Oracle, AWS, Azure, GCP

## EXPERIENCE

Data Analyst (Aquatics Program), NC State University

Mar 2024 – May 2025

*Tech. Stack: Python, JavaScript, Power BI, FusionGO*

- Developed and deployed automated ETL pipelines using Python and Excel macros, increasing reporting efficiency and improving data accuracy by 30% across university wellness systems.
- Engineered backend reporting modules and optimized database structures for the Casey Aquatic Center, resulting in seamless FusionGO integration and faster data retrieval.
- Built staff performance tracking dashboards using Power BI, enabling real-time compliance monitoring and reducing audit exceptions by 40%.

Software Development Engineer, Jinee Infotech

Jan 2023 – May 2023

*Tech. Stack: C#, ASP.NET, SQL, SSMS*

- Designed and implemented 10+ RESTful APIs using ASP.NET MVC, enhancing system scalability and improving client-side data transactions by 35%.
- Optimized SQL queries and refactored backend business logic, reducing server response times by 35% and improving DB throughput.
- Strengthened security by integrating token-based authentication and access control, reducing vulnerabilities by 15%.

Machine Learning Intern, Mement.io

Jan 2022 – May 2022

*Tech. Stack: Python, Airflow, Tableau, Google Data Studio*

- Deployed an item-based collaborative filtering recommender system that improved prediction accuracy by 82%, evaluated using RMSE, MAE, and user satisfaction scoring.
- Developed scalable feature extraction workflows and automated training jobs using Airflow, reducing model training time by 25%.
- Conducted competitive market research and data exploration to support product growth, contributing to a 20% increase in user engagement.

## PROJECTS

Interactive Study Course Book

Sept 2024 – Nov 2024

*Tech. Stack: Python, MySQL*

Built a backend system with MySQL for managing courses, users, and assessments in a digital textbook platform. Designed normalized schema and implemented dynamic role logic for teachers, students, and admins.

Real Estate ERP System

Jan 2023 – May 2023

*Tech. Stack: ASP.NET, C#, SQLite, SSMS, Postman*

Developed a modular API for property scheduling and assignment. Integrated validation, authentication, and data storage; tested with Postman for load handling and endpoint stability.

Drowsi-Sense

Feb 2024 – May 2024

*Tech. Stack: Python, OpenCV, PyTorch, TensorFlow, Keras*

Developed a real-time drowsiness detection system using 4 CNN layers, batch normalization, dropout regularization, and softmax output, achieving 97% accuracy. Evaluated using precision, recall, and F1-score on 50K+ labeled image dataset.