

NANDINI PATEL

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Summary

Software engineer transitioning to data science with strong foundation in Python, SQL, and machine learning. Completed data analysis internship processing 500K+ records and developed multiple ML projects including predictive models and big data pipelines. Currently pursuing MS in Computer Science with focus on Applied Machine Learning and Cloud Computing.

Education

Indiana University, Bloomington, IN <i>Master of Science, Computer Science</i> (GPA: 3.78/4.00)	Aug 2024 - May 2026
L. J. Institute of Engineering and Technology (GTU), Ahmedabad, India <i>Bachelor of Engineering, Computer Engineering</i> (GPA: 9.37/10.00)	Aug 2019 - Jun 2023

Skills

- **Languages:** Python, SQL, R, JavaScript, Java, TypeScript, HTML, CSS, C#
- **Frameworks/Libraries:** TensorFlow, Keras, Angular, .NET, React, Node.js
- **Databases:** MySQL, PostgreSQL, MSSQL, Oracle
- **Tools & Platforms:** AWS (EC2, S3, QuickSight), Tableau, PySpark, Hadoop, Snowflake, GitHub
- **Other:** Agile/Scrum, ETL, Data Warehouse, Data Analysis, Database Management, Pandas, MATLAB, NumPy, Seaborn, Statistics, Machine Learning

Projects

F1 Finish Tier Predictor Conducted exploratory analysis on Formula 1 race, lap-time, and pit-stop data to identify performance patterns. Engineered race features (lap-time stats, pit-stop durations, grid position, circuits) and trained predictive models (Random Forest, XGBoost) to forecast finishing positions, evaluated with Mean Absolute Error. Designed an interactive Streamlit app where users can input race parameters that maps predictions into finish tiers (Top 3, 4–10, 11+) and visualizes class probabilities for interpretability.	Jun 2025 - Aug 2025
COVID-19 Healthcare Analytics Platform Engineered distributed data pipeline using PySpark, Hadoop, and AWS (EC2, S3, QuickSight) to analyze 5M+ COVID-19 patient records. Optimized queries with partitioning, bucketing, and compression. Launched real-time AWS QuickSight dashboards for ICU occupancy, infection trends, and resource tracking. Designed predictive models and a scalable cloud architecture for healthcare resource management, planning and forecasting.	Aug 2024 - Dec 2024

House Price Prediction Model

- Crafted machine learning model from large datasets using linear regression and decision tree algorithms, achieving R^2 score of 0.82 on test data.
- Processed and cleaned datasets from 3+ real estate sources for accurate modeling.
- Created data visualizations with Python libraries (Matplotlib, Seaborn) for stakeholder presentation.

Work Experience

IBM SkillsBuild (CSRBOX Foundation) Data Analyst Intern Processed 500K+ records using SQL and Python, developing insights that increased reporting accuracy. Applied statistical modeling and regression to identify key user behavior patterns to guide 3 strategic decisions. Streamlined data cleaning processes, reducing dataset preparation time by 40%.	Feb 2023 - May 2023
MyEdMaster LLC Software Developer Intern Configured dashboard and navigation system, making switching across 5 core modules smoother and the user experience more effortless. Implemented a secure login and profile system (React.js, Python, MySQL) with multi-device access. Created reusable frontend components and synced with backend APIs, speeding up development by 25% and keeping the codebase clean. Helped develop the search and chat features supporting 100+ daily user interactions between entrepreneurs and partners.	Jun 2025 - Aug 2025
MobMaxime (Eventtan Pvt. Ltd.) Junior Web Developer Led development of 4 scalable web applications using ASP.NET and C#, focusing on performance optimization and system reliability. Collaborated with frontend, backend, and QA teams, deployed modular backend systems, and improved development productivity by 20%. Promoted to full-time role based on consistent performance across previous internship positions.	Dec 2023 - Jul 2024
MobMaxime (Eventtan Pvt. Ltd.) Web Developer Intern Built adaptive web interfaces using ASP.NET and Angular with improved response times by 25%. Connected SQL backends with RESTful APIs, improving data fetch operations. Utilized Entity Framework for efficient SQL database management, improving database performance.	Feb 2023 - May 2023
MobMaxime (Eventtan Pvt. Ltd.) Frontend Developer Intern Implemented responsive UIs in Angular with focus on mobile-first design and cross-browser compatibility. Engineered reusable Angular components and developed component library for consistent design patterns across 3 company projects. Optimized JavaScript and CSS performance, implementing lazy loading and code splitting techniques.	Apr 2022 - Jun 2022