

Neha Jagdish Patil

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Education

Master of Science in Data Analytics Engineering Expected May 2025
Northeastern University, Boston, MA, GPA: 3.8/4.00
Coursework: Data Management for Analytics, Computation and Visualization for Analytics, Data Mining in Engineering
Activities: Director of Events, Data Analytics Engineering Student Organization; Graduate Leadership Institute
Bachelor of Technology in Computer Science Aug 2017 - Apr 2021
Dr Babasaheb Ambedkar Technical University, India, GPA: 3.56/4.00
Coursework: Data Structures and Algorithms, Object Oriented Programming, System Programming and Operating Systems, Machine Learning, Artificial Intelligence, Business Management
Activities: Secretary, Debate Society, Organizer, Impetus and Concepts

Skills

Programming Languages: C++, Python, SQL, NoSQL, Unix
Databases: MS SQL Server, MySQL, Oracle DB, PostgreSQL
Visualization Tools: Tableau, Power BI, Visio, Microsoft Excel, Looker
Data Engineering: Database Design, Data Modeling, Data Warehousing, ETL, Big Data Technologies (Spark, Hadoop), Git
Data Science: Classification, Regression, Neural Networks, Descriptive, Quantitative, Predictive, Statistical Analytics
Cloud and Infrastructure: AWS (Redshift, S3, Athena, CloudWatch, EC2, Lambda, RDS, Quick Sight, Data Pipeline, Glue)

Work Experience

AI/ML Engineer, Accenture, Pune, India Oct 2022 - Jul 2023

- Contributed to the development and testing of machine learning models for predictive maintenance in semiconductor manufacturing.
- Collaborated with a multidisciplinary team of data scientists and hardware engineers to improve model accuracy by 20%.
- Investigated cutting-edge AI/ML and automation methods to enhance the existing R&D processes.
- Analyzed large datasets using Python and SQL to identify patterns and insights, supporting the R&D team in innovative projects.
- Developed and deployed a recommendation system for optimizing production schedules, reducing downtime by 15%.

Software Data Engineer, Accenture, Pune, India Jul 2021 - Sep 2022

- Built 210 database objects, complex queries, deployed 125 customizations in Microsoft SQL Server.
- Streamlined CRM lifecycle for Fintech product Voyager by resolving 340 client issues & reducing resolution time by 25%.
- Developed ETL using Python to load financial data of property and vendor management into databases.

Business Intelligence Intern, V3 Data Solutions, Nashik, India Apr 2021 - Jun 2021

- Developed ETL pipeline in data warehouse transforming & loading over 100000 supply chain data points into Databricks.
- Coordinated with the supply chain team to automate weekly reports in inventory to reduce manual efforts by 100%.
- Integrated Power BI to forecast demand, supply chain operations to reduce stock outs by 10%, expenses by 18%.

Projects

Deep Learning and Quantum Generative Models for High Energy Physics Calorimeter Simulations ([Link](#)): Developed advanced generative models using deep learning and quantum computing for high energy physics simulations. Achieved a 25% increase in simulation accuracy and collaborated with a team of physicists and data scientists.

Database Design for E-commerce Management System ([Link](#)): Architected Amazon management database, converting UML/EER model into normalized relational model in MySQL, in MongoDB. Resulted in 30% increase in data accessibility.

Movie_recommender_system ([Link](#)): Developed a personalized movie recommender system using machine learning algorithms to enhance user experience by providing tailored movie suggestions. Developed a personalized movie recommender system using machine learning algorithms, achieving a 30% increase in user engagement through tailored movie suggestions.

IMDb Movie Data Analysis ([Link](#)): Performed data preprocessing, exploratory data analysis, time series analysis, predictive modeling using Python & Machine Learning, achieved predictive accuracy of 91.2%. Build interactive Tableau dashboard.

HR Analytics Dashboard using Excel, Power BI, Dax ([Link](#)): Developed Power BI dashboard integrating Excel data, utilizing DAX functions for HR analytics. Streamlined operations, saving 3-4 hours daily for HR team, improved decision-making.

AWS-ETL-DataLake-S3-Songs Playlist ([Link](#)): Built recommender systems (KNN, SVD, Neural Networks) with 51% accuracy and a sentiment analyzer (logistic regression, random forest, XGBoost) with 91.4% accuracy, followed by performance evaluation.

Certifications

[LeetCode – 50 SQL Challenge](#), [Hands on Essentials – Data Warehouse](#), [Essential Cloud Infrastructure: Core Services](#)