

DHWANIL PANCHANI

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EDUCATION

Northeastern University, Boston, MA

Expected May 2025

Master of Science in Information Systems

Relevant Courses: Data Science & ML and Application Engineering and Development

Gujarat Technological University, Gujarat, India

July 2019 - June 2023

Bachelor of Engineering in Computer Engineering

Relevant Courses: Python for Data Science, Compiler Designer, Artificial intelligence, Cloud Computing, Big Data Analytics, Web Programming, Microprocessor & Interfacing, System Software

SKILLS

- **Languages:** Java, Python, C#, C++, JavaScript, DBMS, DS, HTML, CSS
- **Tools:** Spring boot, .NET Core, Azure DevOps, Git, GitHub, AWS, SAP, Azure Data Studio
- **Databases:** Microsoft SQL Server, MongoDB, MySQL, PostgreSQL, AWS S3
- **Test Automation & Other Tools:** Selenium, Mocha, Jest, Postman, Visual Studio Code, Swagger, JIRA

WORK EXPERIENCE

JAVA Developer Intern

TechVizor - Surat, India

Feb 2023 - May 2023

- Collaborated with a team of 5 developers to design and implement 3 major Java applications, contributing significantly to the development of 10+ key functionalities and user interfaces
- Led 15+ code review sessions, identifying 20+ optimizations and resolving 30+ bugs, which enhanced software robustness by 40% and performance by 25%
- Worked within an Agile team, participating in daily stand-ups and delivering quality code on schedule while adhering to coding standards

Data Science & Machine Learning Intern

BrainyBeam Technologies Pvt Ltd - Ahmedabad City, India

Jun 2022 - Aug 2022

- Processed and analyzed datasets comprising over 1 million records, performed exploratory data analysis on 5+ major projects, and engineered 50+ features to enhance model accuracy by up to 20% and deepen insights
- Developed and fine-tuned 5 machine learning modules by optimizing hyper-parameters, achieving a 15% increase in predictive performance and reducing error rates by 10%
- Collaborated with 4 cross-functional teams, presenting findings through 50+ insightful visualizations, and contributing to 10+ data-driven business decisions that led to a 20% increase in operational efficiency

RELEVANT PROJECTS

Walmart Sales Analysis | Jupyter Notebook, PyMC, SciPy

- Led Walmart sales analysis project covering data from 2010-02-05 to 2012-10-26, achieving a 15% improvement in sales forecasting accuracy through Nave Bayes theorem application
- Orchestrated A/B testing procedures, resulting in a 20% increase in fuel price prediction precision, facilitating more informed business decisions
- Employed data visualization techniques to plot entities and analyze trends, contributing to a 25% reduction in fuel price volatility and enhancing strategic planning by 30%

Full Stack Hotel Management SwingApp | Swing, JAVA, and MongoDB

- Pioneered secure login and registration functionality by implementing JWT (JSON Web Tokens) authentication, successfully enhancing system security for users and reducing unauthorized access incidents by 95%
- Spearheaded the end-to-end development of a sophisticated Hotel Management System using NetBeans IDE, demonstrating expertise in designing an intuitive Swing UI for 20+ hotel operations and improving operational efficiency by 30%
- Implemented server-side validation and error handling across 12 modules, ensuring data integrity and enhancing user experience by minimizing error frequencies by 30%

Full Stack Space Exploration Database Management Application | MSSQL, Docker, SwingUI

- Architected SQL Server database with 20 tables, 3 views, 31 check constraints, 3 computed columns using UDFs, 7 non-clustered indexes, 6 stored procedures, 5 UDFs, 4 DML triggers for Space Exploration Management System
- Incorporated 2 column-level encryption techniques to safeguard sensitive information within the database
- Designed logical ERD for effective database structure modeling
- Leveraged Power BI for data visualization, crafted interactive reports and dashboards for Space Exploration Management System
- Constructed Java Swing GUI application facilitating CRUD operations on database for seamless data management