

Nithish Patel Varala

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Education

- **Post-Graduation in Information Technology Solutions** (Expected Graduation: Dec 2025)
Humber College, International Graduate School, Toronto, Canada
- **Bachelor of Technology in Electronics and Communications Engineering** (July 2023)
JNTUH University College of Engineering, Sultanpur

Skills

Technical Skills

- **Programming Languages:** Python, Java, C#
- **Data Science & Visualization:** Tableau, Excel, Pandas, Matplotlib, Stream lit, Exploratory Data Analysis
- **Database Management:** SQL, PL/SQL, Oracle Database
- **Web Development:** HTML, CSS, XML, JavaScript
- **Methodologies:** Agile Methodology, Statistical Analysis
- **Tools and Technologies:** AWS, Git, Visual Studio, Jupyter Notebook, Linux

Experience

DATA SCIENTIST – (AI VARIANT, BANGALORE, INDIA)

07/2023 to 01/2024

- **Created and deployed a personalized Movie Recommendation System**, scraping and structuring data into a CSV file with **1000+ movies** for robust analysis.
- **Conducted Exploratory Data Analysis (EDA)** to clean data, addressing **missing values in 10+ columns** and visualizing attributes to identify trends in **10+ movie genres**.
- **Implemented a TF-IDF model with cosine similarity**, achieving a recommendation accuracy of **85%** based on user satisfaction tests.
- **Stored processed data using pickle files**, optimizing for efficient retrieval with a **response time under 2 seconds** per query.
- **Deployed with Streamlit**, providing an interactive web interface, generating **user engagement rates of over 75%** with tailored recommendations.
- Enhanced user engagement and retention through relevant and accurate recommendations, supporting a **20% improvement in user interaction** with the platform.

Projects

NSP WEB (MOVIE WEB APPLICATION)

- Designed and launched a responsive web application using HTML, CSS, and Streamlit.
- Created a personalized movie recommendation feature using machine learning, achieving 85% user satisfaction on recommendation relevance.

CANADIAN STOCKS PORTFOLIO MANAGEMENT

- Crafted a JavaScript and XML web app for stock management, elevating user satisfaction by **25%** through real-time data integration from the Yahoo Finance API.
- Introduced portfolio tracking features and alerts on stock performance, leading to a **30%** increase in user retention.

BANKRUPTCY PREVENTION

- Developed a predictive model for bankruptcy risk assessment, achieving 85% accuracy and reducing risk evaluations by **30%**.
- Validated the model, reaching a **95%** confidence level in predictions for improved reliability.

Certifications

- **Data Science Certification**, Excelr Solutions (12/2023)
- **Complete Python Course**, Udemy (12/2022)
- **Machine Learning Workshop** (10/2021)