

Harshwardhan Patil

Email : hrpatil273@gmail.com | LinkedIn : [hrpatil273](https://www.linkedin.com/in/hrpatil273) | Github : [hrpatil273](https://github.com/hrpatil273)

EDUCATION

Master of Science in Data Science

2022 - 2024

Indiana University, Bloomington

Indiana, USA

Relevant Coursework: Data Analysis, Machine Learning, Deep Learning, Cloud Computing

Certifications: Google Advanced Data Analytics Professional Certificate, August 2023

Achievements:

- Third Place at GT-IDEA Indiana University Case Competition, November 2023
- Runner-up at NACE Starleague Chess Tournament - Division 20 (Indiana University Chess Team), Fall 2023
- Luddy Outstanding Service Award, May 2023 & May 2024

Involvements:

- President and Director of Public Relations at Data Science Club at IU
- Data Science Graduate Representative at Graduate & Professional Student Government
- Adobe Student Ambassador for Indiana University

TECHNICAL SKILLS

Languages	Python, PostgreSQL
Frameworks	Pytorch, Tensorflow, Keras, Scikit-learn, Flask, Streamlit, LangChain
ML Algorithms	Regression, Classification, Clustering, Boosting, Recommendation, Ensemble Methods
Deep Learning	Neural Networks, Transformers (Hugging Face), LLMs
Miscellaneous	AWS, Linux, Git, Conda, MLflow, Docker, Kubernetes

EXPERIENCE

Machine Learning Engineer

May 2024 – Present

AI Team, Upper Hand

Indianapolis, Indiana

- Developed a chatbot that enabled customers to interact with their data, introducing a new revenue stream.
- Implemented a job monitoring tool for ETL pipelines, ensuring smooth operation and timely issue resolution.
- Led the development and management of recommendation algorithms, achieving 63% production accuracy.
- Generated \$800 in MRR by implementing profit and loss transformations on QuickBooks data and extracting key KPIs, including MRR, ARR, and YoY & MoM changes in revenue, expenses, and net profit.
- Designed and developed a dashboard to analyze the demographic and economic characteristics of client locations, providing a competitive advantage that generated an additional \$2,500 ARR.

Data Science Internship

May 2023 – July 2023

Faculty Assistance in Data Science Program, Indiana University

Indiana, USA

- Built a data pipeline to scrape and process 8 years of Mental Health Treatment Facilities contact information to visualize trends and service types to identify regional growth patterns and service diversification.

Data Engineer

November 2020 – July 2022

Network Decision and Support Database(NDSD) Team, Infosys Ltd.

Bangalore, India

- Modified more than 50 **ETL and ELT** pipelines for streamlining data collection, integration and processing.
- Achieved a 20% improvement in database performance through **Query Optimization** and **Index Tuning**.
- Improved **Operational excellence** by 30% by automating job monitoring and recovery processes.

PROJECTS

Chat with SQL Database

- Developed an AI-powered, auto-corrective chatbot using Langchain and Streamlit for SQL database interactions, incorporating semantic search capabilities for user query understanding.

Comparative Analysis of ML Algorithms for Predicting Customer Loan Approval

- Analyzed SVM, K-NN, Random Forest, and Logistic Regression Algorithms for customer loan approvals.
- Achieved the highest prediction accuracy of 81% with the Random Forest and deployed the model on Heroku