

Yash Patel

(224)-539-6564 | yasharvindpatel2000@gmail.com | <https://www.linkedin.com/in/yashpatel0301/> | <https://www.kaggle.com/yashp301>

EXPERIENCE

DePaul University, Chicago, United States - *Research Assistant*

Apr' 24 - Dec' 24

- Refined resource allocation methods via Reinforcement learning model focused on optimizing computation tasks within distributed networks; directly improved user experience for thousands of concurrent connections relying on accurate processing times.

IQM Corporation, New York, United States - *Data Intern - Summer*

Jun' 24 - Aug' 24

- Explored AWS QuickSight extensively, uniting with the AWS team to gain in-depth knowledge and leverage its capabilities. Applied insights to develop an in-house query app, ensuring robust functionality across all dimensions.
- Achieved over 88 BLEU score accuracy for SQL syntax recognition by implementing advanced machine learning methodologies.

IQM Corporation, Ahmedabad, India - *Data Scientist*

Jan' 22 - Aug' 23

- Analysed large datasets using cosine similarity to assign 100,000-150,000 URL views to potential viewer IDs, enhancing data accuracy and user insights.
- Developed APIs for keyword extraction and implemented a BERT NLP model to predict categories for URLs, achieving efficient labelling of approximately 6,500 URLs every 12 hours.
- Partnered with the Data Engineering team, leading efforts from the Data Science side to develop a strategy that balanced ad recommendations by integrating insights from historical data with real-time incoming data streams.

Ahmedabad University, Ahmedabad, India - *Data Science Teaching Assistant*

Oct' 21 - Dec' 21

- Facilitated targeted support on projects and statistical tools; encouraged deeper comprehension of machine learning concepts through hands-on exercises that increased student project completion rates.

Etasha Society, Delhi, India - *Data Analyst Volunteer*

Jan' 21 - Mar' 21

- Conducted comprehensive data cleaning and analysis for a nonprofit organization, streamlining information processing which improved data reliability by 30% to better support vocational training initiatives aimed at underserved communities.

SKILLS

- Programming:** Python, C, Java, C++, R, SQL
- Databases:** PostgreSQL, Oracle, MySQL
- Frameworks:** Scikit-learn, PyTorch, Tensorflow, Matplotlib, Seaborn, Langchain, Langgraph
- Technologies:** Machine Learning, Deep Learning, EDA (Exploratory Data Analysis), NLP, Computer Vision, Generative AI, Agentic AI, Data Visualization, Git
- Tools:** Github, Snowflake, AWS, PowerBI, Tableau

PROJECTS

QA-Youtube-Videos

- This Streamlit app enables users to ask questions about YouTube videos by analyzing their transcripts using OpenAI's GPT-3.5 model. This project follows RAG architecture with tool calling using Langchain.
- It supports multilingual queries, transcript translation, and semantic search with FAISS.

Molecular Communication

- Designed and evaluated ANN and LSTM models for binary code prediction in a fluid medium, achieving 99.27% accuracy with LSTM.
- LSTM outperformed ANN by 0.3% in accuracy.

Computer Vision Projects

- Crafted innovative solutions involving neural style transfer, contributing to the completion of five individual projects that provided practical insights into machine learning applications within visual data analysis processes.

CERTIFICATIONS

- Machine Learning - Stanford University
- How Google does Machine Learning – Coursera
- Chatbot Workshop - The MAD
- Google Cloud Big Data and Machine Learning Fundamentals - Coursera

EDUCATION

DePaul University, Chicago, United States

Masters of Science in Computer Science

Sept' 23 - Mar' 25

Coursework: Programmatic Machine Learning, Artificial Intelligence, Data Mining, Database Systems

Ahmedabad University, Gujarat, India

Bachelor's in Information and Communication Technology

Aug' 18 - May' 22

Coursework: Machine Learning, Probabilistic Modelling, NLP, Computer Vision, Industrial Statistics