Yash Vyas

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EDUCATION

Master of Science in Data Science — Aug 2024 - Expected May 2026
Indiana University Bloomington, Luddy School of Informatics, Computing, and Engineering
Relevant Coursework: Statistics, Probability, Applied Machine Learning, Advanced Database Concepts, Deep Learning

Bachelor of Science in Computer Science — Aug 2017 - May 2021
Vellore Institute of Technology — GPA : 3.7/4
Relevant Coursework: Data Structures and Algorithms, Linear Algebra, Computer Networks, Data Analysis

EXPERIENCE

Data Scientist — July 2021 - July 2024
Signify (Philips) — *Bangalore, India*

- **Recognized as Top Performer** for optimizing ROI by **10%** across 6 global markets applying Market Mix Modeling and designed a KPI dashboard with Streamlit, reducing execution time by **2 weeks**
- Reduced Global Consumer Channel attrition by **6%** through weighted gradient boosting, NLP for text analytics, OCR for extracting information from resumes (text, images), and DBSCAN for employee segmentation
- Implemented topic modeling and sentiment analysis on scraped customer reviews utilizing Beautiful Soup, Snowflake, and BERT, contributing to **$2 million** increase in revenue for targeted products
- Orchestrated a Power BI simulation tool for price elasticity analysis, influencing strategic pricing adjustments
- Co-developed a hybrid recommendation system to provide product suggestions leveraging ALS algorithm, Snowflake, and AWS, boosting multi-device purchases by **25%**
- Collaborated with data engineers to automate data validation for MMM, **saving 1 week** in data collection

Data Science Engineer Intern — Feb 2021 - June 2021
Signify (Philips) — *Bangalore, India*

- Integrated R functionalities into Python by adopting Rpy2, improving cross-functional project workflows
- Built time series forecasting pipelines for financial planning across **3 markets**, applying ARIMA, XGBoost, LSTM, and 1D CNN, enhancing accuracy in market predictions

Data Risk Analytics Intern — May 2020 - June 2020
KPMG — *Remote*

- Devised credit risk models using SVM to predict loan defaults for clients with limited credit history leveraging Gini metrics

PROJECTS

BackOps.AI | Large Language Models (LLM), SQLite, Javascript: Link

- **First Place** at Indiana University Annual Hackathon **securing $950** among **315+** participants and **72** teams.
- Built AI agent for operating Backend system in 55 hours using Javascript, FastAPI, Sqlite, LLMs with real-time analytics

FarmEasy | Large Language Models (LLM), Streamlit: Link

- **Finalist** in Agrinovus Producer-Led Innovation Challenge at IUB among **50+** candidates involving startups and students
- Spearheaded a multimodal RAG platform with Mistral, Google API , Whisper, Streamlit, and JavaScript, enabling farmers to expand market reach across states with real-time, accessible guidance on regulations, pricing, and logistics

Textly | Natural Language Processing, PyTorch: Link

- Engineered Textly, an advanced alternative to Quillbot, employing Flask and a fine-tuned BERT model for style-specific, multilingual support, achieving a BLEU score of **45**, and deployed with Docker and Vercel.

No Brainer | Computer Vision, Medical Image Classification, Tensorflow: Link

- Created a real-time Flask app to classify brain tumors using transfer learning on ResNet50, VGG, attaining **97% f1 score**

SKILLS

Programming and Development:	Python, R, Matlab, SQL, PySpark, Pytorch, Tensorflow, Docker, AB Testing
Cloud and Data Platforms:	AWS, S3, Google Cloud, SAP, Snowflake, Tableau, Power BI, Streamlit