

Yash Vyas

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EDUCATION

- **Vellore Institute of Technology**
Bachelor of Technology in Computer Science; CGPA: 8.4 *Aug. 2017 – Aug. 2021*

EXPERIENCE

- **Signify Innovation Labs (Philips Lighting)** Bangalore
Data Scientist *July 2021 - Present*
 - **Market Mixed Modelling (Snowflake, Regression, Streamlit):**
 - Optimized ROI by average of 10% across 6 global markets using UCM algorithm.
 - Created KPI monitoring dashboard using Streamlit, reducing execution time by 50%.
 - **HR Attrition Prediction (Snowflake, Classification, Clustering, NLP, OCR):**
 - Analyzed employee data to identify attrition factors and utilized NLP and OCR techniques for resume data extraction
 - Implemented LightGBM with weighted SMOTE, achieving a 90% F1 score in predicting attrition factors. Segmented employees using clustering for deeper analysis, resulting in a significant 6% reduction in attrition rates.
 - **Price Elasticity (Snowflake, Regression):**
 - Streamlined pricing strategies for peak performance leading to 8% growth through price elasticity analysis
 - Engineered a powerful regression-based simulation tool for lighting product optimization, elevating profitability and market standing
 - **Text Analytics (Snowflake, ML, NLP, Transformers):**
 - Employed topic modeling and sentiment analysis on scraped customer reviews, enabling comprehensive brand perception analysis and competitor benchmarking.
 - Utilized machine learning and deep learning for insightful analysis of product reviews, directly contributing to targeted 5 million dollars revenue growth for selected products.
 - **Other:**
 - Conducted a hackathon for interns on machine learning classification problem.
 - Integrated R-based models into Python using Rpy2 library which helped fellow team members in leveraging R.
 - Contributed in creating stored procedure in Snowflake for data validation in MMM.
- **Signify Innovation Labs (Philips Lighting)** Bangalore
Data Science Intern *Feb 2021 - June 2021*
 - **Time Series Forecasting (ARIMA, ML, LSTM):**
 - Leveraged a combination of traditional ARIMA-based time series analysis, machine learning algorithms and LSTM networks to build a forecast model catering to the Financial Planning and Analysis team.

PROJECTS

- **Text Summarization Tool (NLP, Transformers, Docker, FastAPI, AWS, Git):** [link](#)
 - Created an end-to-end text summarization solution using huggingface transformer architecture achieving a rouge score of 0.3.
- **No-Brainer (CNN, Flask, Git):** [link](#)
 - Created a groundbreaking Flask web application for brain tumor detection by developing a CNN model in Pytorch, achieving an impressive 97% accuracy using ResNet50 architecture via transfer learning.

SKILLS

- **Python, SQL, Pandas, sklearn, Pytorch, Snowpark, AWS, SAP DI, GCP, Tableau, Power BI, Streamlit, Snowflake, Docker, Flask, , FastAPI, AB Testing**

HONORS

- **Top performer at Signify Innovation Labs (Philips Lighting):** MMM
- **Top 10% in Leaf Classification Challenge:** Image Classification Hackathon conducted on MachineHack