# Vyshnev S

Bengaluru, India | +91-9400380840 | vyshnevnandanam@gmail.com | linkedin.com/in/vyshnev | github.com/vyshnev

### Experience

#### LTIMINDTREE

March 2022 – Present Bangalore, India

Currys plc

October 2022 - Present

• Engineer(Data Science focus)

- Collaborated on the iterative development of customer churn prediction system from logistic regression to ensemble of XGBoost models, achieving a 14% churn reduction and £12M potential savings over 3 years.
- Expanded feature set from 22 initial features to 45+ features, incorporating time-series analysis, NLP-derived insights from customer feedback, and behavioral segmentation, resulting in model AUC-ROC from 0.73 to 0.89 for improved accuracy.
- Worked in Collaboration with software and engineering teams to deploy a scalable, real-time churn prediction pipeline on AWS, handling 50,000+ predictions per minute with 99.99% uptime, integrating model outputs into CRM for personalized retention.
- Utilized Explainable AI (XAI) techniques (SHAP, LIME) to identify churn drivers, resulting in a 7% improvement in targeted retention effectiveness.
- Incorporated methods for evaluating the training dataset used in customer churn predictions for possible inherent dataset biases that led to unequal outcomes by 5% thus highlighting a positive metric for team.
- Juniro Engineer(Data Analyst focus)

March 2022 - September 2022

- Utilized New Relic for real-time monitoring and analysis of application performance, identifying anomalies and providing actionable insights to ensure seamless operations.
- Managed Salesforce pipelines, ensuring data integrity, accuracy, and minimal disruptions.
- Analyzed technical issues, documented root causes, and created Jira tickets to support data-driven development.
- Collaborated across teams to resolve challenges and maintained documentation for process optimization.

#### Projects

## End-to-End Used Car Price Prediction(Github) | Python, Streamlit, MLFlow, DVC, Docker, AWS

- Built a robust machine learning solution to predict used car prices.
- Created an ETL pipeline to scrape web data and store it in an AWS S3 bucket for efficient storage and processing.
- Performed exploratory data analysis (EDA), trained multiple models (including XGBoost, Random Forest and Gradient Boosting), and tracked the performance of each model using MLflow on DagsHub.
- Implemented DVC for data versioning and model tracking, ensuring the reproducibility of our experiments and managing changes in both data and code.
- Created a Docker image that contains the streamlit application, and that can be deployed in any machine.
- Created a user-friendly, containerized Streamlit application for interaction with the trained model, and deployed it on AWS EC2, making the model accessible through the internet.

### Sales Forecasting System(Github) | pandas, statsmodels, Prophet, scikit-learn, Flask, Docker

- Developed a sales forecasting system using time series analysis to predict retail sales for the next quarter, by implementing models such as SARIMA and Facebook Prophet to capture trends and seasonality.
- Preprocessed data, handled outliers, and created lagged features for better model performance.
- Integrated external variables to improve predictive power.
- Automated training and deployment using Flask and Docker.

#### **EDUCATION**

### SRI MANAKULA VINAYAKA ENGINEERING COLLEGE

PUDUCHERRY, IN

B. Tech in Mechanical Engineering

Aug. 2017 - Oct. 2021

## TECHNICAL SKILLS

Languages: Python, SQL, HTML/CSS, C++

Libraries and Frameworks: Seaborn, Matplotlib for Data Analysis; Pandas, Numpy, Scikit-learn for Machine

learning; Keras, Pytorch for deep learning; Flask, FastAPI, Streamlit, Selenium, Docker

Developer Tools: Git, Postman, PyCharm, Jupyter Notebooks, Jira, Anaconda

Databases: PostgreSQL, MySQL, SQLite

Cloud Technologies: AWS (EC2, S3, ECR, RDS, CI/CD (Github Actions)), Azure