

Varun Vinodh

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varunvinodh.github.io/Aboutme/
Data Scientist

PROFESSIONAL SUMMARY

As a data scientist with 3+ years of experience in machine learning and predictive analytics, I specialize in transforming data into actionable insights to solve business challenges and drive impactful decision-making.

TECH STACK

Python
scikit-learn/ TensorFlow
Pandas/ Numpy

Excel
SQL (SSMS)
MLOps

PowerBI/ Tableau
Github/ Azure DevOps
Agile Methodology/ Jira

PROFESSIONAL EXPERIENCE

MLOps Engineer at Anheuser-Busch InBev: Bangalore, Karnataka

Sept 2024 - Present

As an MLOps Engineer at Anheuser-Busch InBev, I handle the deployment, monitoring, and maintenance of machine learning models in production. I collaborate with Data Science teams to integrate ML solutions and work with cross-functional stakeholders to optimize operations, enhance model performance, and drive efficiency.

Accomplishments:

- Developed a Forecasting Model to predict the number of Failures and the respective error category of failures for Azure Data Factory (ADF) pipelines.
 - Created dashboards that enabled data-driven decision-making, improving operational efficiency and streamlining processes across the organization.
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Data Scientist and Team Lead at AIDAS Technologies: Coimbatore, TamilNadu

May 2022 - August 2024

As a Data Scientist at AIDAS, I led the ML package development for our web product. Designed a recommendation model, enhancing customer engagement and sales. Specialized in healthcare RCM, predicting claim denials, and developing an insurance payment model. Demonstrated leadership by leading teams, providing mentorship, and contributing as a Technical Recruiter for the Data Analytics team.

Accomplishments:

- Promoted to Team Lead in February 2024, successfully managing and mentoring a team of 4 data scientists and analysts.
 - Developed ML packages and established an MLOPS pipeline for the company's web product.
 - Designed a personalized recommendation model using customer behavior data, enhancing customer engagement and **increasing product sales by 15%**.
 - Implemented a highly accurate NLP model for customer duplication identification, **reducing manual review time by 80%** and optimizing operational efficiency.
 - Developed a blended model comprising a rule-based engine and machine learning model to predict claim denials in the RCM Healthcare analytics industry and **reduce denials by 8%**.
 - Developed an insurance payment prediction model, enabling **efficient resource allocation** for the AR team.
 - Contributed as a Technical Recruiter, actively involved in hiring for the Data Analytics team.
 - Achieved the Best Performing Employee award for Q3 2023.
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Data Analyst at InstaDataHelp Analytics Services: Bangalore, Karnataka

Sept 2021 - April 2022

As a Data Analyst at InstadataHelp, I achieved performance gains through model optimization and collaborated on impactful projects with a Senior Data Scientist.

Accomplishments:

- Executed diverse data and analytical projects, incorporating web scraping, data preprocessing, and building ML models (Regression, Classification, Clustering).
- Achieved **10-15% performance gains** through model tuning and optimization.
- Collaborated with my Senior Data Scientist on various projects in finding insights using statistical analysis and creating visualizations using PowerBI and Tableau.

EDUCATION

Manipal Academy of Higher Education
PG Diploma in Data Science

June 2019 - April 2021

Sri Krishna Arts and Science College
Bachelor of Computer Application

June 2016 - April 2019

PROJECTS

Python Library: LeEncoderML - Categorical Data Encoding(PyPi)

- Developed a Python package for efficient management of categorical data in machine learning projects. Key features include text-to-numbers encoding, re-encoding with handling of unseen labels, and decoding of encoded data.
- Implemented functionalities to simplify the process of storing and reusing encoders for individual datasets.
- The package streamlines the handling of categorical data, especially in scenarios involving unseen labels and maintaining encoding consistency.
- Available on PyPi for easy installation and usage.

Customer Purchase Analysis and Recommendation

- Conducted correlation analysis, revealing relationships between product categories and demographics.
- Analyzed customer spending, found age groups 26-45 contributing to 59.9% of purchases.
- Explored gender and education impact on purchasing behavior, noting higher spending in educated customers.
- Designed a personalized recommendation model to enhance cross-selling and upselling strategies.

Web Scrape

- Created a function to retrieve data on the latest, most popular, or most viewed YouTube videos from any specific channel.
- Developed a packaged web scraping code for easy access and extraction of data from any YouTube channel, with the ability to save data into CSV files.

FIFA-19 Data Analysis

- Explored the correlation between different player traits in FIFA-19.
- Determined the top 3 skills required per position.
- Developed functions to assemble the best squad based on overall player ratings.

AWARDS AND HONORS

- **Hackathon Participant - DSNet WhatsApp Text Analysis**
 - **Technical Hiring Evaluator - AIDAS TECHNOLOGIES**
 - **Best Employee of Q3 2023 - AIDAS TECHNOLOGIES**
 - **Data Science Foundation Certification - IBM**
 - **Six Sigma Certification - The Council for Six Sigma (CSSC)**
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