

Varun Vinodh

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Data Scientist

PROFESSIONAL SUMMARY

I am an experienced Data Scientist with a strong background in business analytics and machine learning and leading data teams. My journey in data science began in 2019 and has since been marked by a commitment to transforming complex data into actionable insights. My expertise lies in leveraging data-driven decision-making to drive growth and operational efficiency.

TECH STACK

Python
scikit-learn/ TensorFlow
Pandas/ Numpy

Excel
SQL (SSMS)
MLOps

PowerBI/ Tableau
Github/ Azure DevOps
Agile Methodology/ Jira

PROFESSIONAL EXPERIENCE

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.
- Led the Analytics team, providing mentorship and guidance.
- Contributed as a Technical Recruiter, actively involved in hiring for the Data Analytics team.
- Achieved the Best Performing Employee award for Q3 2023.

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.
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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.
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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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REFERENCES

Subhbhah Pal - Chief Analytics Advisor at InstaDataHelp

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