

Varun Vinodh

Data Scientist | MLOps Engineer
India (**Open to Relocation**)
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PROFESSIONAL SUMMARY

Senior Data Scientist & MLOps Engineer with 4+ years of experience delivering production-grade machine learning solutions across healthcare, consumer analytics, and enterprise platforms. Strong expertise in end-to-end ML lifecycle – from data exploration and predictive modeling to cloud deployment, monitoring, and automation on Azure. Proven track record of business impact, team leadership, and stakeholder collaboration.

CORE SKILLS

Programming & Tools: Python, SQL, Pandas, NumPy, scikit-learn, TensorFlow, Power BI, Excel.
Data Science & ML: Predictive Modeling, NLP, LLMs, Recommendation Systems, Time Series Forecasting, Feature Engineering, Model Evaluation.
MLOps & Cloud: Airflow, Azure ML, Azure Data Factory, Databricks, Model Deployment, Monitoring, CI/CD.
DevOps & Process: GitHub, Azure DevOps, Agile/Scrum, Jira.
Business & Leadership: Stakeholder Management, Team Leadership, Mentoring, Data Storytelling.

PROFESSIONAL EXPERIENCE

MLOps Engineer - Anheuser-Busch InBev GCC India: Sept 2024 - Present

Bangalore, Karnataka

- Manage and optimize the **in-house Machine Learning Platform (MLP)** to improve stability and adoption across zones.
- Collaborate with Data Scientist teams to **integrate ML solutions** and enhance performance.
- Developed a forecasting model for ADF pipeline failures, achieving **94% accuracy** in failure prediction and reducing downtime.
- Created an automated intelligence system that analyzes and shares **insights on the latest pipeline failures**, identifies **spikes/trends**, highlights **high-impact zones**, and provides **failure forecasts** for proactive issue resolution.
- Designed and implemented an **ML-intelligent auto-re-run** solution by **categorizing pipeline failures**—including ingestion errors, authentication issues, timeouts, SQL DB connectivity, and network issues—enabling **automated retries** and significantly **reducing manual intervention and downtime**.

Data Scientist / Analytics Team Lead – AIDAS Technologies: May 2022 - August 2024

Coimbatore, TamilNadu

- Led development of scalable ML packages and established standardized MLOps pipelines for a production web platform.
- Promoted to **Analytics Team Lead**: Successfully managing and mentoring a team of 4 Data Scientists and Data Analysts.
- Designed a **personalized recommendation model** using customer behavior data, enhancing customer engagement and **boosting product sales by 15%**.
- Built an **NLP-based** customer duplication detection model, **reducing manual review effort by 80%** and optimizing operational efficiency.
- Developed a blended model (**rule-based engine + ML**) 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.
- Award:** Best Performing Employee - Q3 2023.

Data Analyst -InstaDataHelp Analytics Services:

Sept 2021 - April 2022

Bangalore, Karnataka

Accomplishments:

- Supported **end-to-end analytics and ML projects**, including data preprocessing, modeling, and reporting.
 - **Optimized models to enhance performance** and accuracy, contributing to **faster insights** and more **data-driven decisions** across key business areas.
 - Collaborated closely with a Senior Data Scientist on high-impact projects, **driving business value** increase through analytics and **improving operational efficiency**.
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KEY PROJECTS

Python Library: LeEncoderML - Categorical Data Encoding(PyPi)

- Developed a reusable Python package for categorical feature encoding, including handling unseen labels.
- Enabled consistent encoding across datasets with save/load functionality for production use.
- 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 demographics and spending behavior; identified age group 26–45 contributing ~60% of revenue.
- Designed a personalized recommendation model to enhance cross-selling and upselling strategies.

Local LLM – Coder

- Built a local LLM-based coding assistant to generate, explain, and debug code without relying on cloud APIs.
- Designed the project for privacy-first, offline development workflows.

Web Scraper Automation

- Built a Python-based scraping utility to extract video metrics (views, likes, trends) from any channel.
 - Packaged solution for CSV export and rapid reuse.
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EDUCATION

Manipal Academy of Higher Education

June 2019 - April 2021

PG Diploma in Data Science

Sri Krishna Arts and Science College

June 2016 - April 2019

Bachelor of Computer Application

CERTIFICATIONS & RECOGNITION

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