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## VISHAL VINOD KUMAR

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Street,West Gandhinagar.Avadi  
Chennai, 600054

### PROFESSIONAL SUMMARY

Master's student in Computer Science with 1 year of industry experience, adapt at quickly learning new technologies and delivering high-quality code. Skilled in developing efficient, data-driven solutions, with a strong focus on data science and software development.

### TECHNICAL SKILLS

- Excel
- PowerBI
- React
- C/C++
- Python
- Flask
- MongoDB
- MySQL/PostgreSQL
- Machine Learning

### PROFESSIONAL EXPERIENCE

**Miebach Consulting India Pvt Ltd - Associate IT Consultant**

**Jun 2023 - Jun 2024**

#### **Project 1: Demand forecasting Machine Learning - Wipro**

In the project, I performed data cleaning, preprocessing, and feature engineering using Python, Pandas, NumPy, and Scikit-learn to prepare datasets for machine learning and visualization. I designed and developed interactive dashboards using Power BI and Tableau to present key business metrics and insights effectively. Additionally, I built and optimized demand forecasting models using XGBoost, ARIMA, and Exponential Smoothing techniques (SES, DES, TES), incorporating hyperparameter tuning and cross-validation to improve model performance. The brand-level model selection approach enhanced forecast accuracy from 73% to 90%, demonstrating strong skills in time series forecasting, predictive analytics, and data-driven decision-making.

#### **Project 2: Warehouse management System - Miebach Consulting**

To automate inventory tracking and order management, I created a Warehouse Management System (WMS) with Python, Django REST Framework, React, PostgreSQL, and Docker. Role-based authentication, RESTful APIs, and a React dashboard for real-time monitoring were all included in the system. I increased order processing efficiency by 35% and decreased API latency by 40% by optimizing queries with Redis caching and database indexing.

**Caterpillar - Data Analytics Intern**

**Jun 2025 - Present**

Supported the lead in developing the Sales and Operations Planning processes and inventory governance processes. Developing dashboards using Power BI to draw insights from a large amount of data. Automating data pull, data cleansing, and report generation activities using Microsoft VBA scripting.

### CERTIFICATIONS

- AWS Partner: Cloud Economics Accreditation
- AWS Partner: Accreditation (Technical)
- AWS Cloud Technical Essentials
- Python Programming and Data Exploration in Python -NIIT

### PUBLICATIONS

- Leveraging advanced preprocessing and CNN for mortality and rehospitalization prediction in heart failure patients. (2025, May 29). IEEE Conference Publication | IEEE Xplore. <https://ieeexplore.ieee.org/document/11102711>
- Jayakrishnan, G., Nair, A., Kumar, V. V., & Suresh. (2023). Standardized, Enhanced and Robust Automated Fingerprint Recognition using CNN. International Journal for Research in Applied Science and Engineering Technology, 11(9), 1217–1221. <https://doi.org/10.22214/ijraset.2023.55816>

### EDUCATION & CERTIFICATIONS

**Masters in Technology** August 2024 - Present  
Amrita Vishwa Vidyapeetham  
Computer Science Engineering, Current CGPA: 8.45

**Bachelor of Technology** July 2019 - May 2023  
SRM Institute of Science and Technology, Ramapuram  
Computer Science Engineering , CGPA : 9.2

### EXTRA CURRICULAR ACTIVITIES

- Puzzle Solving
- Reading
- Sports - Football and Badminton

### LANGUAGES KNOWN

- English (Professional working proficiency)
- Hindi (Professional working proficiency)
- Malayalam (Native proficiency)