

LATESH KARMALKAR

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PROFILE

BSc IT student with solid foundation in information technology, programming, and database management. Proficient in Python, SQL, Machine Learning and AI knowledgeable about modern technologies and eager to contribute to IT projects.

EDUCATION

Vidyalankar School Of Information Technology, Mumbai

Bachelor of Science in Information Technology

Jun 2022– May 2025

EXPERIENCE

AI/ML Intern: YBI Foundation

May 2025 – July 2025

- Experimented with machine learning algorithms (Logistic Regression, SVM, Random Forest) and identified the best performing model, achieving a 92% prediction accuracy on customer churn
- Investigated the latest AI/ML research, experimented with new techniques, and applied to current challenges, improving model accuracy for predictive tasks by 15%
- Conducted statistical analysis using hypothesis testing, providing insights into the effectiveness of the machine learning model, contributing to a 10% improvement in model tuning

SKILLS

- | | | |
|--------------|--------------------|------------------------|
| • Python | • Seaborn | • Statistical Analysis |
| • SQL | • Big Data | • Deep Learning |
| • EDA | • Machine Learning | • Scikit-learn |
| • Matplotlib | • MongoDB | • NLP |

PROJECTS

Talent Start: Bridging Startups and Fresh Graduates

Dec 2024 – Mar2025

- Talent Start is a dynamic platform designed to connect emerging startups with talented fresh graduates.
- The goal is to simplify the recruitment process while offering graduates meaningful opportunities to kick-start their careers in innovative and fast-growing environments.

IPL Insights through Data Visualization

Sep 2024 – Oct 2024

- The objective of this project is to perform an in-depth analysis of the IPL 2016 season using Python. By leveraging data visualization libraries such as Seaborn and Matplotlib, the project aims to uncover trends and patterns in team performances, player statistics, and match outcomes.
- Key focus areas include top-performing batsmen and bowlers, toss impact on match results, and scoring patterns.

Online Fraud Detection using Machine Learning

Feb 2025 – Mar 2025

- Developed a fraud detection model using **machine learning algorithms** to identify fraudulent transactions.
- Implemented **Data preprocessing, Feature engineering and EDA** for model training.
- Evaluated multiple models (e.g., Logistic Regression, Random Forest, Decision Trees, etc.) and compared their performance.

SQL Project on Music Store Database

Feb 2024 – May 2024

- Designed and executed **SQL queries** to analyze customer behavior, sales patterns and top-performing artists/genres.
- Applied **joins, CTEs, window functions** and **subqueries** to solve real-world business questions
- Identified **top customers, most popular genres per country and revenue-generating cities** for business insights.

CERTIFICATIONS

- Basics of Prompt Engineering – **Alison** / Learned prompt design techniques for effective interaction with AI models.
- Mongo DB Course – **Mongo DB University** / Gained expertise in NoSQL databases. aggregation and indexing.
- Data Visualisation: Empowering Business with Effective Insights – **Tata Group** / Developed skills in transforming raw data into impactful visual insights to support business decision-making.