LATESH KARMALKAR

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PROFILE

BSc IT student with a 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. Skilled in data visualization, statistical analysis, and predictive modelling to deliver actionable insights.

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 them 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
- SQL
- EDA
- Matplotlib
- Seaborn
- Pandas
- Big Data
- Machine Learning
- MongoDB
- Statistical Analysis
- Deep Learning
- Scikit-learn
- NLP
- Model Deployment
- Git/GitHub
- Power BI

PROJECTS

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.

SQL Project on Music Store Database **Feb 2024 – May 2024**

- Designed and executed **SQL queries** to analyse customer behaviour, 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.

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 pre-processing, Feature engineering, and EDA** for model training.
- Evaluated multiple models (e.g., Logistic Regression, Random Forest, Decision Trees, etc.) and compared their performance.

Deep Learning-based Animal Recognition Model **Sep 2025 – Oct 2025**

- Built and trained a **Convolutional Neural Network (CNN)** using **Keras** for image classification tasks.
- Pre-processed and reshaped over **2,000 RGB images** (100×100) using **NumPy** and Pandas to prepare data for model training.
- Evaluated model performance and visualized accuracy metrics using **Matplotlib** and **Seaborn** to optimize results.

CERTIFICATIONS

- Basics of Prompt Engineering – **Alison** | Learned prompt design techniques for effective interaction with AI models.
- MongoDB Course – **MongoDB 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.