



Bhakti Prakash Ayarekar

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Education

Kolhapur Institute of Technology, B.Tech in Computer Science (Data Science) Sept 2021 – May 2025

- GPA: 9.2/10.0

Technologies

Languages: Python (Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn), Java, C, HTML, CSS, SQL, MYSQL
Technologies: Data Science (cleaning, wrangling, visualization, modeling, interpretation), Data Analysis (EDA), Time Series Analysis, Machine Learning (Regression, Classification), Deep Learning (ANN, CNN, RNN), Generative AI, Natural Language Processing, Tensorflow, OpenCV, PowerBI, Tableau, Git, MLOPS

Experience

SDE Intern, TetraNoodle Technologies – Remote Oct 2024 – Jan 2025

- Worked on business problems using AI, automation to optimize email marketing, and analyze data for better engagement on social networks.

Project Intern, Intel Company (Unnati Program) – Virtual July 2024 – Aug 2024

- Developed a YOLOv8 and ResNet-50, EasyOCR, TesseractOCR based recognition system with real-time SQL logging and Node.js backend to improve vehicle movement analysis and generate actionable insights.

Research Intern, Menon and Menon Ltd. July 2023 – July 2023

- Conducted market research on organic farming, supported R&D in export-import data collection & predictive analysis on large datasets to improve food safety metrics. Also study time series forecasting on material.

Projects

[\[Project Link\]](#)

Reddit Sentiment Analysis Using AWS Services 2024

- Developed a real-time sentiment analysis system with 70% accuracy using AWS (Kinesis, Lambda, Glue, Athena, Comprehend), PRAW for data collection, and PowerBI for visualization, giving actionable insights.

Walmart Time Series Analysis 2023

- Conducted Time Series Analysis on Walmart sales data using Python, Pandas, Matplotlib, and Statsmodels. Implemented ARIMA, SARIMA, and FB-Prophet, achieving forecast accuracy of 93.85%, 95.04%, and 96.48% respectively.

Automatic Number Plate Recognition System 2022

- Built a license plate detection system using YOLO-v8, ResNet-50 & other OCR achieving 98% accuracy in plate localization and 97% in character recognition.

Publications

[\[Publication Link\]](#)

Published paper at IEEE Conference 2024: Automatic Number Plate Recognition: A Deep Dive into YOLOv8 and ResNet-50 Integration

Developed ANPR system achieving accuracy of 98.6% plate detection and 97.81% character recognition.

Achievements and Certifications

[\[Certification Link\]](#)

- Winner of Walmart Time Series and Real-Time Object Detection & 2nd Runner Up for a real-time Reddit sentiment analysis system using AWS and ANPR
- Certifications: Complete Data Science Machine Learning DL NLP Bootcamp, AWS Academy Machine Learning Foundations, AWS Academy Cloud Foundation, PwC Power BI Virtual Case Experience.