

YASH PURBHE



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yashpurbhe



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Kalyan

EDUCATION

Bachelor of Engineering, Computer Science Engineering (AIML)
Saraswati College of Engineering , Kharghar
CGPA : 7.5 / 10

Sep 2022 – present

SKILLS

Programming Languages : Python, SQL

Artificial Intelligence : Machine Learning, Deep Learning, Generative AI

Machine Learning Tools & Frameworks : Scikit-learn, TensorFlow, Keras, Pandas, NumPy

Deep Learning Techniques : Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN)

Data Analysis & Visualization : Excel, Power BI, Matplotlib, Plotly

Web Development : HTML, CSS, Streamlit, Flask

Soft Skills : Leadership, Teamwork, Problem-Solving, Communication, Adaptability, Creativity, Collaboration

PROFESSIONAL EXPERIENCE

1. Prodigy InfoTech - ML Intern

Jul 2024 – Aug 2024

- Developed a **Linear Regression model** to predict housing prices based on key features such as square footage, number of bedrooms, and bathrooms.
- Implemented **K-Means Clustering** to segment retail customers by purchasing behavior, enabling data-driven targeted marketing strategies.
- Built a Hand Gesture Recognition system using **computer vision techniques** to classify gestures from both static images and video streams.

2. YBI Foundation - ML Intern

Jun 2024 – Jul 2024

- Designed a **Credit Card Fraud Detection system** leveraging **Random Forest and Decision Tree classifiers** to identify anomalous transactions.
- Developed a **Home Price Prediction model** using **regression techniques** to estimate property values based on housing features.
- Created a **Heart Disease Prediction model** using machine learning algorithms to evaluate patient risk based on clinical indicators.

PROJECTS

1. Chronic Kidney Disease Prediction Web App

Jul 2025

Tech stack : Streamlit, Scikit-learn, Pandas, Pickle

- Built a **machine learning web application** to predict CKD risk using clinical data, achieving **99% accuracy** with a Random Forest Classifier.
- Pre-processed data (null handling, normalization, encoding) and evaluated 8 ML models for optimal performance.
- Designed a **full-width Streamlit interface** with intuitive feature labels and integrated real-time predictions using serialized model files.
- Added **data visualizations** and result images for better interpretability and user experience.

2. AI-Powered Demand Forecasting System for Hyperlocal Delivery

Oct 2024

Services 

Tech Stack : TensorFlow, scikit-learn, Prophet, Streamlit, Plotly

- Developed a machine learning-driven **forecasting system using time series models** to accurately predict monthly product demand across **store-level data**.
- Designed a **voice-enabled dashboard** with interactive visualizations to support **real-time, hands-free inventory planning and sales strategy decisions**.
- Enabled **hyperlocal businesses** to reduce inventory waste and stockouts by identifying peak demand patterns and aligning supply with anticipated needs.

3. Seismic Detection Across the Solar System

Oct 2024

Tech Stack : Python, ML, SciPy (Butterworth Filter), Matplotlib, Signal Processing,

- Engineered a **real-time denoising system** using **Butterworth filters** to extract genuine seismic activity from **Apollo** and **InSight** mission data, reducing environmental and operational noise.
- Automated seismic event detection and structured output generation to support onboard intelligent decision-making and reduce irrelevant data transmission.
- Delivered visual analytics **comparing raw vs. filtered signals**, significantly enhancing interpretability for planetary scientists and **improving data clarity for space missions**.

COURSE CERTIFICATES & BADGES

- Python For Data-science – NPTEL
- Python skills assessment – scaler topics
- Google Cloud Skill Boost – 20+ Course & Lab Badges [↗](#)
- Machine Learning Course – Udemy
- Data Analysis With Python – IBM [↗](#)
- Big Data – IBM [↗](#)

EXTRA CURRICULAR

Tata Group Data Analytics Job Simulation on Forage [↗](#) Jun 2025

- Completed a job simulation involving AI-powered data analytics and strategy development for the Financial Services team at Tata iQ.
- Conducted exploratory data analysis (EDA) using GenAI tools to assess data quality, identify risk indicators, and structure insights for predictive modeling.
- Proposed and justified an initial no-code predictive modeling framework to assess customer delinquency risk, leveraging GenAI for structured model logic and evaluation criteria.
- Designed an AI-driven collections strategy leveraging agentic AI and automation, incorporating ethical AI principles, regulatory compliance, and scalable implementation frameworks.

Deloitte Australia Data Analytics Job Simulation on Forage [↗](#) Jun 2025

- Completed a Deloitte job simulation involving data analysis and forensic technology
- Created a data dashboard using Tableau
- Used Excel to classify data and draw business conclusions

Deloitte Australia Technology Job Simulation on Forage [↗](#) Jun 2025

- Completed a job simulation involving development and coding
- Wrote a proposal for creating a dashboard

BCG GenAI Job Simulation on Forage [↗](#) Jun 2025

- Completed a job simulation involving AI-powered financial chatbot development for BCG's GenAI Consulting team.
- Gained experience in Python programming, including the use of libraries such as pandas for data manipulation.
- Integrated and interpreted complex financial data from 10-K and 10-Q reports, employing rule-based logic to create a chatbot that provides user-friendly financial insights and analysis.

AWARDS & ACHIEVEMENT

PVPPCOE Quasar 3.0 Hackathon Grand Finalists

Ranked in the top 50 of 500+ teams for delivering a technically innovative and impactful project.