

Prathamesh Dessai

AI / ML Engineer

+91 9022558714

in/prathamesh-dessai

prathameshdessai6801@gmail.com

github.com/PrathameshPD

Goa, India

K kaggle.com/thegoanpanda

Profile

AI/ML Engineer with 2.5+ years of combined experience in research, internships, and full-time roles. Focused on developing Agentic AI and Generative AI solutions using full-code and low-code approaches.

Technical Skills

Programming - Python

Specialization - Data Science, Machine Learning, Artificial intelligence, Deep Learning, NLP, LLM, RAG, Gen AI, Agentic AI

Cloud Platforms - Microsoft Azure

Microsoft Stack - Copilot Studio, Power Automate, AI Foundry

UI/UX Frontend Development - Stream lit, Flask, Gradio, UI/UX Design, Responsive UI, React, Fast API

Data Visualization - Tableau, Power BI, Excel

Version Control Tools - GitHub, Azure DevOps

Soft Skills - Management Skills, Creativity, Leadership

Professional Experience

Capgemini

Senior Associate – AI/ML Engineer

Pune, India Aug 2025 - Present

➤ Project: Cash Apps

- Lead the Cash Apps Low-Code initiative in Copilot, driving automation through agent creation and flow design and team adoption of modern low-code solutions.
- Collaborated with team on building intelligent agents for Cash Apps, gaining initial exposure to business logic and problem-solving strategies.
- Rebuild the entire Cash Apps process locally, integrating an email finder library, API key management, and designing a multi-agent architecture for end-to-end execution & brainstorming solutions with Azure services and architecting robust flow designs.
- Transitioned to the Cash Apps Low-Code Platform, creating agents and automated flows using Copilot and Power Automate.
- Continued deep learning of Copilot, Power Automate, and advanced automation tools, strengthening technical proficiency.

Associate – AI/ML Engineer

Pune, India Mar 2025 – Aug 2025

➤ Project: P66

- Transitioned to Project P66, rapidly understanding complex business logic and exploring innovative approaches overnight.
- Delivered 90% accuracy in both normal and complex scenarios for P66 Matching Agent.
- In P66, handling complex scenarios was very challenging, but I discovered a different technique that successfully delivered the solution.
- Engaged with the client to capture requirements using the 4Ws framework, ensuring clarity and alignment.

➤ Project: Tax Code

- Assigned to Tax Code Extraction task, focusing on efficient document extraction.
- Utilized Azure OCR for extracting tax codes from scanned and digital documents, improving data accuracy and processing efficiency.

➤ Project: Voice Detection

- Successfully completed the Voice Detection task, leveraging Azure Speech-to-Text (STT), Text-to-Speech (TTS)
- Fast API for seamless integration to UI for response.

FlairX Networks

Data Scientist Intern

Bengaluru, India Jul 2024 - Dec 2024

- Developed a machine learning-based recommender system and Implemented data preprocessing, feature engineering, and model optimization for better performance and Deployed on Stream lit.
- Redesigned Website and Implemented UI/UX enhancements and optimized front-end components for better responsiveness.

DISHA AI Edu Tech Solutions Pvt Ltd

Data Analytics Intern

Bengaluru, India Apr 2024 - Jun 2024

- Contributed to extracting actionable insights from student data by performing comprehensive data analysis.
- Managed missing values manipulated datasets for better accuracy and created interactive visual dashboards to visualize key trends and patterns.
- Delivered these insights through data-driven presentations to stakeholders, enabling informed decision-making and enhancing overall project outcomes.
- Revamp the website's front end.

REVA University

Research Fellowship

Bengaluru, India Oct 2023 - Mar 2024

- Collaborated with PhD students and government institutions on agricultural research projects.
- Developing an end-user interface to assist farmers in diagnosing crop diseases.
- Developed an image classification model to identify crop diseases and severity, alongside evaluating various machine learning models for performance.
- Focused extensively on data preprocessing to improve model accuracy and optimize results.

Publications

- **Enhancing Integrity of Toll Gates: Fast Tag Fraud Detection**
Prathamesh Pradeep Dessai, Nikhil B, Dr. S. Senthil
International Journal of Advanced Networking and Applications (2024)
- **Gender-Based Suicide Data Analysis**
Ashika Devi R, Noorain Fathima, Prathamesh Pradeep Dessai
ICICTA (2023)

Malaysia Immersion Program & Certifications

- Employability Skills for Industry 4.0
- Leadership Skills and Culture Immersion
- Cybersecurity: A Holistic Approach Integrating Information Security Management System
- Introduction to Artificial Intelligence and Machine Learning
- Health & Safety - IT Industry Requirements
- Workshop Series - Professional Ethics

Education

Master of Science in Data Science

REVA University

Bangalore, India Sept. 2022 – Sept. 2024

GPA: 8.93 / 10

Bachelor of Computer Applications

VVM's Shree Damodar College of Commerce & Economics

Goa, India Jun. 2019 – Jun 2022

GPA: 9.03 / 10

Achievements

- Best All-Round Performance Award in BCA (2019–2022)
- Tech Wizard Student of the Year (2021–2022)
- Best Tech Performer of the Year (2021–2022)
- Secured 1st Rank in TY BCA 2022 with 91.1%
- Achieved Highest Score in TY BCA 2022: 911/1000
- Graduated with 3rd Rank in BCA with an FGPA of 9.03 (Sem 1 to Sem 6)
- Kaggle Contributor