

# Prateek De

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## EDUCATION

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### Arizona State University

*B.S. in Computer Science and Data Science, Senior*

Tempe, AZ, USA

Aug 2022 – Dec 2025

- Barrett, The Honors College
- Andy Grove Intel Inc scholarship for Academic Excellence, 2023
- New American University Scholar (NAMU) scholarship
- Fulton Ambassador

## CERTIFICATIONS

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### McKinsey Forward Learning Program

Nov 2024 – Dec 2024

- Participated in the McKinsey Forward Learning Program, learning how to solve problems, lead teams, and communicate effectively in real-world situations.
- Gained practical skills to think strategically and make impactful decisions, preparing me for leadership roles in tech and beyond.

## TECHNICAL SKILLS

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**Languages:** Java, Python, HTML, SQL, Swift, Scheme, JavaScript, R, Flutter.

**Frameworks:** React, SentenceTransformers, PyMuPDF, Express.js, MySQL, CoreLocation, MapKit, CoreData, Discovery API.

**Developer Tools:** Git, AI prompt engineering, AWS Lambda, Docker, Google Cloud Platform, VS Code, Firebase, MongoDB, Postman, Azure, Eclipse, Xcode, RStudio, PyCharm, IntelliJ, Figma.

## EXPERIENCE

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### WheelEasy Foundation

*Frontend and Backend developer Intern*

Dec 2024 – present

Sydney, Australia (Online)

- Improved the functionality of an interactive accessibility map, ensuring it meets user needs for identifying accessible destinations easily.
- Optimized zoom-in and sidebar navigation features for seamless exploration of detailed location information.

### MindScribe

*Founder and Backend Developer*

Dec 2024 – present

Tempe, AZ

- Designed and implemented a robust backend system using Python, enabling real-time emotion analysis and 10-day trend prediction with AI models (LSTM/Transformers).
- Built secure and scalable RESTful APIs with Flask/FastAPI to ensure seamless communication between the Flutter-based app and the cloud-hosted backend.
- Focused on user privacy and data security by integrating encryption protocols and adaptive learning, enhancing the app's ability to provide tailored insights for emotional well-being.

### PricewaterhouseCoopers (PwC)

*Data Science Intern*

May 2024 – Aug 2024

Bengaluru, IN

- Enhanced the LightGBM algorithm with custom loss functions and feature engineering, improving its ability to capture seasonal trends and promotional impacts.
- Developed robust preprocessing methods to clean and manage a sample dataset of 60,000 rows, addressing missing data and outliers to establish a baseline accuracy of 70%.
- Designed and fine-tuned an ensemble forecasting system combining SARIMA, LightGBM, and Transformers, increasing accuracy to approximately 90% on the sample dataset by optimizing parameters and leveraging advanced feature selection.

## OpuLnt Technology LLC (ACC ID: 23577661)

March 2024 – Nov 2024

Founder and Full Stack Developer

Tempe, AZ

- Researching and planning backend architecture for a Dynamic Course Recommender app, exploring Python frameworks and database solutions to build a scalable system.
- Investigating machine learning libraries such as sci-kit-learn and TensorFlow to develop personalized course recommendation algorithms based on student data and academic trends.
- Evaluating web scraping tools like BeautifulSoup and natural language processing libraries for gathering and analyzing course information from online sources, including Reddit.

## AdpT LLC (ACC ID: 23008007)

Dec 2023 – Feb 2024

Front End Developer

Tempe, AZ

- Planned and designed an intuitive interface using vanilla JavaScript, focusing on usability and aesthetic appeal from scratch.
- Implemented features and interactions to elevate the overall user experience and ensure seamless visual design.

## ParmarthNGO

May 2021 – Aug 2021

City Lead

Bengaluru, IN

- Led a team of 200 in a startup initiative involving 1000 people during the second wave of COVID-19 in India, coordinating efforts with contractors to secure oxygen cylinders and essential supplies, ensuring stock availability, and saving thousands of lives through strategic planning and efficient record management.

## PROJECTS

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### DocuQuery | Simple RAG-Based App

Apr 2025

- Developed a lightweight document-based QA tool that achieved 92 percent accuracy on user-generated queries by combining semantic search with GPT-3.5 completions.
- Processed and chunked PDFs into over 1,000 context windows using SentenceTransformers; top-3 vector matches boosted response relevance by 38 percent over vanilla prompting.
- Delivered real-time answers (12s latency on average) through a local Streamlit UI, enabling offline AI assistance for research, documentation, and classroom material.

### Resumagic | AI-Powered Web Tool

Apr 2025

- Built a client-side AI tool leveraging Gemini API and PDF.js to convert resumes into responsive portfolio websites, enabling real-time generation with a privacy-first architecture.
- Integrated AWS Lambda for secure Gemini API interactions and implemented usage throttling via localStorage, ensuring on-device data privacy and scalable function execution.
- Deployed the frontend via Amazon S3 and CloudFront for fast global access, eliminating the need for traditional servers and enabling seamless GitHub Pages fallback.

### Findr by OpuLnt

Dec 2024

Full Stack Developer

- Collaborated with a team of four to develop a lost-and-found app for ASU students, focusing on backend development to ensure seamless functionality. Designed secure systems for interactive item listings and direct messaging, making it easier for students to reconnect with their belongings.
- Addressed campus-wide challenges by creating a user-friendly platform with minimal registration requirements. Targeting completion by December 2024, with plans to present it as an official ASU digital service.

### EventFinder - iOS Application

Apr 2024

- Developed an iOS app that allows users to search for events based on pincode and distance preferences, featuring a user-friendly interface with event cards, interactive map view, and search history.
- Integrated with Ticketmaster Discovery API to fetch event data, including details, price ranges, seatmaps, and ticket URLs, and utilized CoreLocation to display event locations on the map view.
- Implemented expandable event cards, Apple Maps integration for directions, and employed SwiftUI, CoreData, and MVVM architecture to create a responsive, visually appealing, and maintainable app.

### ThriveSpace: Your Personal Mental Health Companion

Dec 2023

- Developed a full-stack web app focused on mental well-being, incorporating features like daily motivation and therapeutic journaling to provide meaningful user support.
- Designed secure systems to ensure robust data privacy, aligning the app with the increasing focus on mental health awareness and user trust.

- Led the implementation of a website feature featuring an OTP password generator login system for package sending to armed forces families.
- Orchestrated the complete back-end development for the full-stack project, ensuring seamless functionality and integration.
- Played a key role in constructing specific sections of the database and applied the 6-Sigma (DMAIC) concept to enhance product development, refine problem definition, and create efficient solutions.