

# Pranav Chhabra

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## EDUCATION

University of Wisconsin – Madison  
*Bachelor of Science in Computer Science*

May 2024  
GPA: 3.9/4.0

## EXPERIENCE

### Headstarter AI

Jul 2024 – Apr 2025

*Data Analytics Resident*

*Remote*

- Developed a GitHub pull request summarization tool with multi-language support (Python, JavaScript, TypeScript), syntax validation, and automated context extraction
- Launched a RAG-powered professor rating platform that improved search quality and personalized recommendations
- Built an AI-driven pantry manager suggesting recipes from pantry inventory and images, cutting manual input by **90%**
- Designed a Market Anomaly Detector for early financial trend spotting using AI-driven models
- Created a real-time AI customer support agent by combining OpenAI APIs with AWS Bedrock

### TeammateME

Jul 2024 – Dec 2024

*Data Analyst Intern*

*Austin, TX*

- Developed frontend using React and Next.js, backend using PostgreSQL and implemented new features for mobile app using Node.js and React Native
- Set up CI/CD pipelines with GitHub Actions, speeding up deployment cycles and improving release stability

### Capital One

Sep 2023 – Dec 2023

*Data Analytics Extern*

*Madison, WI*

- Created MonsterRewards, an iOS app using Swift and SwiftUI that boosted user engagement by **20%**
- Optimized backend queries with MongoDB and AWS services, improving app reliability and speed
- Managed Agile sprints, delivering project milestones **15%** ahead of schedule

### AiRo Digital Labs

Jun 2022 – Aug 2022

*Data Analytics Intern*

*Chicago, IL*

- Automated invoice processing workflows using UiPath and VB.NET, reducing manual data entry effort by **~70%**
- Designed and deployed a custom RPA solution, cutting invoice turnaround time by several hours and improving processing accuracy

## PROJECTS

### Customer Churn Prediction App | [Live](#) | [Github](#)

*(Python, Streamlit, XGBoost)*

- Created a Streamlit app predicting customer churn, improving model accuracy from **75%** to **85%** with SMOTE and feature engineering. Added personalized churn explanations using Groq API

### NeuroLens: Brain Tumor Classification | [Live](#) | [Github](#)

*(Python, TensorFlow, SQL)*

- Developed a CNN model achieving **~94%** MRI classification accuracy; boosted to **~99.5%** using Xception via transfer learning. Integrated saliency maps for interpretability, providing data-driven insights into model decisions

### LLM Evaluation Platform | [Live](#) | [Github](#)

*(Next.js, TypeScript, Python, Recharts)*

- Built a platform to evaluate LLMs like GPT-4, Llama-70B, and Gemma2-9b in parallel, cutting manual testing time by **80%**. Integrated Recharts for real-time analytics

### Captionator | [Live](#) | [Github](#)

*(Next.js, OpenAI, Tailwind CSS, React Native, Typescript, Expo)*

- Built and launched an AI-powered full-stack app for generating social media captions, now used by over **100 users**

### Phonicsjoy: Phonics Teaching Website | [Live](#) | [Github](#) (Private)

*(Python, Streamlit, SQL, XGBoost, Tableau)*

- Created a phonics teaching website generating personalized AI-driven stories, worksheets, and flashcards for kids to support reading and practice activities, boosting learning engagement by **~20%**

## TECHNICAL SKILLS

**Languages & Frameworks:** Python, JavaScript, Java, Swift, SwiftUI, React, React-Native, Next.js, Node.js, Express.js, TypeScript, C

**Backend & Cloud:** MongoDB, PostgreSQL, MySQL, AWS (Lambda, S3, EC2, CloudFront, Route 53, Bedrock, SES), GCP, Firebase, Docker, Pinecone

**AI & Automation:** OpenAI, Hugging Face, AWS Rekognition, UiPath, Puppeteer, Cheerio, RAG, Groq API

**Tools & Methodologies:** Redis, REST APIs, Stripe, Groq API, TDD, Agile, GitHub Actions

**Certification:** AWS Certified Cloud Practitioner