

Pragati Chaturvedi

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SUMMARY

Full-Stack Software Engineer with a passion for solving real-world problems through intelligent, user-centric apps. With hands-on experience developing generative AI-powered tools (ChicMate, MindShelf), I bring backend strength, design thinking and a relentless “What else can we do?” mindset, thriving at the intersection of problem-solving, experimentation, and delivery.

EDUCATION

Master of Science, Computer Science – California State University, Sacramento, California, US	Aug 2023 – May 2025
Post Graduate Diploma, Computer Applications – Devi Ahilya University, Indore, Madhya Pradesh, India	Jan 2021 – June 2022
Bachelor of Science, Mathematics and Computer Science – Government Science College, Jabalpur, MP, India	Aug 2017 – Oct 2020

RELEVANT COURSEWORK

Machine Learning, Parallel Programming with GPUs, Algorithms & Paradigms, Data Models & Data Management System

EXPERIENCE

Web Developer – Division of Information Resources & Technology, CSU Sacramento	Jan 2024 – May 2025
<ul style="list-style-type: none">Web & Content Automation: Automated the analysis of 1400+ web pages and 20K+ PDFs across university website using Python scripts to identify stale or outdated content, and generating structured reports used for site-wide cleanup and compliance.Intelligent Document Classification: Developed and deployed a machine learning pipeline to auto-classify 4000+ active PDFs into 17 semantic categories, enabling smarter remediation and reducing content review workload by 90%.Website Performance Analytics: Analysed site engagement using GA4 and peer benchmarking to pinpoint underperforming sections, propose structural changes, and influence web content strategy through actionable data insights.	

SKILLS

Programming Languages :	Python, JavaScript, Java, C#, C/C++
Web & Mobile Development :	HTML/CSS, ReactJS, Vue, Vite, Node.js, Flask, FastAPI, React Native, Expo Router, Google Analytics 4
Database & Cloud technologies :	MongoDB, MySQL, Google Firebase, Firestore, AWS (S3, EC2, Elastic Beanstalk, CodePipeline)
Machine Learning & AI :	TensorFlow, PyTorch, Keras, scikit-learn, Pandas, Numpy, Matplotlib, OpenCV, NLTK, Predictive Modelling, Statistical Analysis, Gen AI
GPU & Parallel Computing :	CUDA, OpenCL
Development Tools & Platforms :	Git/GitHub, Linux/Unix OS, Visual Studio Code, Unity, Jupyter Notebook, Eclipse, Anaconda, Collab, Postman

PROJECTS

ChicMate – Multi-Modal Personalized Styling App | React Native, FastAPI, Gemini API, CLIP, Firebase | [GitHub](#)
Built a cross-platform (Android/iOS), multi-modal mobile app that generates personalized outfit suggestions tailored to the user’s wardrobe. Leveraged CLIP embeddings and vector similarity search to match wardrobe items with contextual inputs – text queries, image uploads, and weather data. Integrated Gemini API for natural language reasoning and advanced image tagging to ensure context-aware, visually aligned recommendations – reducing outfit selection time by 80%.

MindShelf – A Personal Knowledge Library | React, Nodejs, Google Gemini API, MongoDB Atlas, AWS EC2, CodePipeline | [GitHub](#)
Shipped in under 24 hours at MLH AI Hackfest, MindShelf helps users capture and organise online content – articles, videos, threads – into searchable “Mindfiles”. Integrated Gemini API to auto-summarize content, extract tags, and enable natural language search by topic, keyword, or timeframe. Built a full-stack web app with a React Dashboard to view and manage saved content. Also added a Chrome extension for one-click capture, delivering a scalable, AI-driven productivity tool from scratch in a single sprint.

LibBot – Conversational AI for Library Management | Python, Flask, OpenAI GPT API, Google Sheets API, NLP, Function-calling | [GitHub](#)
Designed a natural language interface to automate library inventory tasks – book queries, updates, and availability checks. Used OpenAI’s GPT API with function calling to convert user prompts into structured actions, and integrated Google Sheets as a dynamic backend. Achieved 97% intent recognition accuracy, enabling intuitive real-time interactions and reducing manual management effort by 75%.

Task Manager App – Productivity Desktop Tool | Java, JavaFX, SQLite, OOP, MVC Architecture | [GitHub](#)
Built a standalone desktop app to help users track, categorize, and prioritize daily tasks. Designed a clean UI in JavaFX and implemented features like due dates, real-time search, and completion tracking. Followed MVC architecture and OOP principles to ensure modularity, scalability, and maintainability – mirroring real-world application standards.

CERTIFICATES

[The Web Developer Bootcamp](#)

[AWS Educate - Introduction to Generative AI](#)

[Artificial Intelligence Training Program](#)

[Intro to Cybersecurity - Cisco Networking Academy](#)