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# Aman Choudhary

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## Profile

Detail-oriented **Python Developer** with experience in full-stack web and mobile app development. Specialized in building high-performance backend APIs with FastAPI and creating responsive user interfaces. Highly proficient in advanced web scraping techniques to gather and process complex datasets. Eager to apply a versatile skill set to create robust, user-centric web and mobile applications in a challenging technical environment.

## Education

B.Tech in Computer Science & Engineering | Presidency University, Bangalore

2022 – 2026

## Technical Skills

- **Languages:** Python, Dart (Flutter), JavaScript (React.js), HTML/CSS, SQL
- **Tools & Platforms:** FastAPI, Git, GitHub, VS Code, Selenium, BeautifulSoup, Seleniumbase, Playwright, Android Studio, MongoDB
- **Soft Skills:** Problem-solving, Critical Thinking, Debugging, Teamwork

## Projects

### Nutriscan

- A comprehensive mobile nutrition application that allows users to scan food barcodes. The app provides detailed nutritional facts, a health score, a Gemini API-powered summary of pros and cons, and recommends healthier alternatives.
- **Tech Stack:** Flutter, Python (Selenium, BeautifulSoup for scraping; OCR), MongoDB, Google Gemini API.
- **Contributions:** Developed the Flutter mobile app, built a data pipeline for scraping and OCR, integrated the Gemini API for summaries, and designed the database schema and personalization features like health alerts and a calorie tracker.

### Newsmate

- A news aggregator application allowing users to select a news source and topic to fetch top articles. It provides an option to generate a concise summary for each article using the Google Gemini API.
- **Tech Stack:** Flutter, FastAPI, Python (Selenium, BeautifulSoup, newspaper3k), Google Gemini API.
- **Contributions:** Developed the backend with FastAPI, built the Flutter frontend, and integrated the web scraping and summarization logic.

### Spotify Random Song Player

- A web application that plays random songs from a user-provided list of Spotify artists without creating a playlist, offering a seamless listening experience.
- **Tech Stack:** Python, FastAPI, HTML, CSS, JavaScript, Spotify API.
- **Contributions:** Developed the FastAPI backend to interact with the Spotify API and built the simple HTML/CSS/JS frontend for user input.

### Falsehoodus Maximus

- A proof-of-concept chatbot designed to intentionally generate creative and controversial answers by leveraging prompt injection with the Gemini API to test model vulnerabilities.
- **Tech Stack:** Python, FastAPI, HTML, CSS, JavaScript, Google Gemini API, Render.
- **Contributions:** Developed the backend to handle API calls, designed the chatbot UI, engineered prompts for testing, and deployed the application on Render.

### BunkIt

- A utility mobile app for students with a "bunk calculator" to manage attendance, a timetable, and a holiday countdown timer, all within a unique McDonald's-inspired UI.
- **Tech Stack:** Java, Android Studio, XML.
- **Contributions:** Developed the native Android application from scratch, engineered the core attendance calculator logic, and designed the unique user interface and features.

## Certifications & Achievements

- The Complete Database and Algorithms in Python - Udemy
- SQL for Data Science - Udemy
- Data Structures & Algorithms - CodeChef
- GDG Code to Commit - Certificate of Participation
- Build with India (by Hack with India): Achieved a top 5,000 rank out of 25,000 participating teams in the finale event at the Google Office.

## Additional Information

- **Languages:** English, Hindi
  - **Availability:** Immediate
  - **Interests:** AI & Large Language Models, Backend Development, Mobile App Development, Web Scraping
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