

# Aryan Mahendra Mokashi

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## Summary

Postgraduate student in Data Science & Artificial Intelligence with strong experience in Python-based backend development, full-stack application design, and data-driven systems. Skilled in building scalable web applications, AI-powered solutions, and analytical pipelines, with hands-on experience in machine learning fundamentals, statistical analysis, NLP using LLMs, and cloud deployment. Proven ability to translate real-world requirements into clean architectures, secure APIs, and intelligent features, combining software engineering best practices with applied AI.

## Education

### M.Sc. Data Science & Artificial Intelligence

SVKM Mithibai College | CGPA: 8.25

July 2024 – Present

Mumbai

### B.Sc. Computer Science

JVM Mehta College | CGPA: 8.95

July 2021 – April 2024

Navi Mumbai

## Technical Skills

**Languages:** Python, R, JavaScript, HTML, CSS, TypeScript, React.js

**Databases:** MySQL, MongoDB

**AI & Automation:** OpenAI GPT, Gemini AI, Prompt Engineering

**Frontend:** JavaScript, React.js, HTML, CSS

**Data Analysis & Visualisation:** Excel (Advanced), Power BI

**Backend:** Python, Flask, FastAPI

**Testing & Tools:** React Testing Library, Git, Vercel, Netlify

**Cloud:** AWS, Google Cloud, Git

## Experience

### Freelance Full Stack Developer – IT'Z ME Official (Fashion Retail)

Oct 2025 – Present

**Tech Stack:** React.js, Flask, MongoDB, AWS EC2, Cloudinary, Razorpay

- Architected a decoupled full-stack platform using **AWS EC2** for backend services and **Cloudinary CDN** for optimised media delivery, achieving high availability and sub-second load times.
- Designed a granular inventory management system with MongoDB, enabling size-variant (S/M/L) stock tracking and atomic updates, preventing overselling during peak traffic.
- Integrated **Razorpay** payment gateway with server-side **HMAC SHA256** signature verification, ensuring secure, fraud-resistant transactions and real-time payment validation.
- Developed a smart logistics & checkout engine with pincode-based auto-fill and regex validation, reducing shipping errors by ~40% and improving user retention.

## Projects

### The Influence of Sleep Quality on Gym Performance and Recovery in Amateur Powerlifters

May 2025 – Jan 2026

**Tech Stack:** Python, SciPy, StatsModels, FastAPI, React, TypeScript, Tailwind CSS (Research Paper)

Live Demo: <https://sleep-readiness-system.netlify.app/>

- Conducted an empirical study analysing the influence of sleep quality, fatigue, and stress on gym performance and recovery in 150 amateur powerlifters.
- Applied non-parametric **correlation analysis** and **multiple linear regression**, explaining 65% of the variance in perceived training readiness.
- Identified strong associations between sleep quality and training readiness (**Spearman's  $r = 0.733$** ) and fatigue ( **$r = -0.605$** ) with a large practical effect size.

### Automated Attendance Monitoring System – Smart India Hackathon (Team Leader)

Aug 2025 – Oct 2025

PS ID: SIH25016 | Team ChakraVyuh | Smart Education Theme

**Tech Stack:** React Native, Flask, MongoDB Atlas, JWT, Python

Demo Video: <https://www.youtube.com/watch?v=d-BjvncCt8o>

- Developed a secure attendance system using **QR**, **face recognition**, **geo-location**, and **device authentication**.
- Implemented a robust backend using Flask and **JWT**-based identity validation.
- Delivered the full prototype and qualified through the college-level SIH selection round.

### Chef Byte – AI Cooking Chatbot

Feb 2025 – Mar 2025

**Tech Stack:** Flask, Python, MongoDB, React.js, Gemini API

Live Link: <https://aichefbyte.netlify.app/>

- Created an AI-powered cooking assistant supporting ingredient queries and guided recipes.
- Integrated **Flask + MongoDB** backend with a React.js frontend for seamless data flow and dynamic responses.
- Enhanced accuracy and user experience by incorporating the **Gemini API** for advanced NLP processing.

## Certifications & Activities

- Basic to Advanced Microsoft **Excel** – Skill Nation – [Certificate](#)
- Basic to Advanced Structured Query (**SQL**) – Skill Nation – [Certificate](#)
- Basic to Advanced Microsoft **Power BI** – Skill Nation – [Certificate](#)
- Generative AI Mastermind (Workshop) – Outskill – [Certificate](#)
- AI Dashboards using Microsoft Power BI (Workshop) – Skill Nation – [Certificate](#)