

ANKIT RAJ

Software Developer & Open-source Contributor

Software Developer with 3+ years of professional and part-time experience in backend engineering, API development, and scalable system design. Open-source contribution with 2M+ downloads in projects. Skilled in Python, FastAPI, PostgreSQL, and vector search technologies. Passionate about building efficient, user-centric applications.

ankitrajmahapatra@gmail.com[+91-7827906112](tel:+91-7827906112)[New Delhi, INDIA](https://www.linkedin.com/in/ankit-raj-mahapatra)[ankit404butfound.github.io](https://github.com/ankit404butfound)

[ankit-raj-mahapatra](#)[Ankit404ButFound](#)

EDUCATION

B.Tech in Computer Science and Engineering

Dr. A.P.J. Abdul Kalam Technical University

[Sept 2020 – Sept 2024](#)[Gaziabad, INDIA](#)

Summer Schools on Digital Platform

Aalto University

[14 Aug 2023 – 26 Aug 2023](#)[Helsinki, FINLAND](#)

EXPERIENCE

Software Development Engineer

Aveti Learning Pvt. Ltd.

[July 2024 – Ongoing](#)[Bhubaneswar, INDIA](#)

- Dignifi: Designed and developed a platform for connecting ex-prisoners with housing, education, and employment resources for a US client.
- Info-Search: Engineered a scalable search engine using vector embeddings, making 100,000+ contents to be retrieved with a sub-second latency.

Software Development Part-Time

Aveti Learning Pvt. Ltd.

[Jan 2021 – June 2024](#)[Bhubaneswar, INDIA](#)

- Smart Class App: Designed and deployed a PyQt-based desktop application used across 1,400 schools in Odisha to deliver digital classroom content, reducing manual content distribution time by 80% and improving lesson accessibility for 200K+ students..
- PPT-Translation: Developed the back-end in Flask with MySQL as database, served to 1200+ teachers in India for reviewing contents created by the Content developers.
- Document Assets Management: Built a Flask + PostgreSQL backend using pg-vector to semantically index 140K+ media assets, cutting asset search time and boosting team productivity.
- E-Library: Designed and Benchmarked with 10k users, an offline content delivery software served to 600 students in villages that runs on Raspberry Pi.

PROJECTS

- PyWhatKit:** Developed a popular Python library with 2 million+ downloads that automates WhatsApp messaging scheduling and other tasks, simplifying daily automation for thousands of users. (GitHub Link).
- Deep-Live-Cam:** Contributed to one of the most popular deepfake tools with 50k stars on GitHub, resolved critical build failure on Mac Intel chips. (GitHub).
- HomeworkMachine:** Created a tool that converts computer-generated text into handwritten-style characters using image processing, automating homework generation for 10,000+ active users. (GitHub).
- PhotoCluster:** Using scikit-learn for KMeans clustering and Qdrant database for vector similarity search, made the Phone's gallery clustered and semantically searchable using just text.(GitHub).

SKILLS

Languages & Tools

[Python](#)[NodeJS](#)[Go](#)[JS](#)

[RaspberryPi](#)[Electron](#)[QT](#)

[Docker](#)[Linux](#)[AWS](#)[Heroku](#)

[Git](#)[GitHub](#)

Backend & Databases

[Django](#)[Flask](#)[Express](#)[FastAPI](#)

[ORM](#)[Nginx](#)[MySQL](#)[PostgreSQL](#)

[MongoDB](#)[Qdrant](#)[Redis](#)

Data Formats & Methods

[Embedding](#)[Vector Search](#)[JSON](#)

[XML](#)[YAML](#)

CERTIFICATES

- AI Agents Fundamentals by Hugging-Face (Completed Feb 15, 2025)
- Get started with Redis by Redis University (Completed May 28, 2024)
- LEARNING PATH | Redis AI & Vector Technical by Redis University (Completed June 01, 2024)
- Redis streams by Redis University (Completed May 31, 2024)

ACHIEVEMENTS

- Led a 5-member team to 1st prize among 50+ teams at ADGITM IPU Hackathon, developing a solution for ambulance routing. (Oct 13, 2022)
- Key contributor in a 4-person team winning 1st prize at DTU Hackathon, focusing on AI-driven solutions for rural kids. (Feb 2023)
- Secured 3rd prize in college-wide idea pitching competition, presenting a solution for using computer by handicapped.
- Awarded a sponsored trip to Finland for outstanding performance and contribution at current employer. (Aug 2023)