

# Ankul Kumar

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📍 Bangalore

🐙 [Github](#) ↗

🌐 [Linkedin](#) ↗

## Education

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Bachelor of Technology in Computer Science And Artificial Intelligence  
NIET, Greater Noida ↗  
07/2020 – 06/2024

## Experience

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### Python Development Intern – adrasti.com March 2025 – Present , Bangalore

- Contributed to the backend development of an Advanced Driver Assistance System (ADAS) infotainment platform supporting GPS, music, and speedometer features.
- Implemented modular architecture for components like GPS location tracker, music playback handler, and speedometer logic using Python.
- Developed internal API endpoints (`/gps/update`, `/music/play`, `/steps/count`) to facilitate real-time data communication.
- Created class and sequence diagrams to document backend workflows and service interactions (`LocationService`, `MusicManager`).
- Implemented music playback functionality using external Music APIs for song metadata, playback controls, and playlist management.

## Projects

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### Movie Recommendation System ↗

- Developed a movie recommendation system using Collaborative & Content-Based Filtering to enhance content relevance.
- Built Django-based RESTful microservices (user, rating, recommender), improving modularity and reducing API response time by 20%.
- Created a responsive frontend using HTML, CSS, and JavaScript for real-time user interaction.
- Integrated user and rating data to dynamically generate personalized recommendations.
- Documented APIs and microservice architecture to support maintainability and future scaling.
- Wrote unit tests and manually validated recommendation logic to ensure accurate recommendations.

## Profile

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I'm a Python Backend Developer with hands-on experience building modular APIs and backend systems using FastAPI, Flask, and Django. I enjoy working with both relational and NoSQL databases, and have deployed applications using Docker. I've integrated machine learning models and ETL workflows into real-world scenarios through personal projects. I'm comfortable with object-oriented programming, design patterns, and always eager to learn and improve system performance.

## Skills

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- **Languages:** Python, SQL
- **Frameworks:** FastAPI, Django, Flask
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Backend Concepts:** RESTful APIs, Microservices, Async Programming, JWT Auth, CI/CD, OOP, Design Patterns
- **Machine Learning:** Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation, Deployment (Flask/FastAPI)
- **Data Engineering:** ETL Pipelines, Airflow (basic), Data Modeling, Web Scraping, Data Cleaning, Transformation
- **Cloud & DevOps:** AWS(basic), Docker, GitHub Actions, Render
- **Tools:** Pandas, NumPy, SQLAlchemy, BeautifulSoup, Selenium, Scrapy
- **DSA:** Data Structures & Algorithms (GFG, HackerRank)

## Achievements

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Solved 250+ coding problems on GeeksforGeeks, demonstrating strong algorithmic problem-solving skills.



Earned top rankings in Data Structures and Algorithms challenges on HackerRank. ↗

Certifications:

- Python Developer Associate (ISO 14001)
- Machine Learning Specialization (Coursera)

## Web Scraping ↗

- Designed and implemented a full-stack web scraping system to extract and process structured data from entire websites.
- Built a modular Flask-based backend with endpoints for scraping, validation, and file download.
- Developed a responsive frontend interface to initiate scraping and download results in DOCX, CSV, and TXT formats.
- Automated file generation with unique output folders per session to ensure stateless and clean operation.
- Enabled seamless multi-format data export, enhancing user flexibility across different reporting needs.
- Architected the system with modular components, making it easy to extend for additional data formats or scraping targets.