

Aman Kumar

Software Engineer

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Career Objective

Motivated and detail-oriented Python developer with strong academic background in Computer Science and Artificial Intelligence. Skilled in writing efficient backend code, debugging, and integrating applications with third-party services. Seeking to contribute to innovative projects while enhancing my expertise in Python frameworks and backend development.

Education

Master of Technology – Artificial Intelligence & Data Science	2024 - 2026
Maharishi Dayanand University	CGPA – 8.6
Bachelor of Technology – Computer Science & Engineering (Artificial Intelligence)	2020 - 2024
Gurugram University	CGPA – 8.0

Technical Skills

Programming: Python, Java, SQL

Frameworks: Django, Flask

Databases: MySQL, PostgreSQL

Tools: Git, GitHub, PyCharm, Vs code.

Libraries: Pandas, NumPy, Pandas, Matplotlib

Web: HTML5, CSS, JavaScript

Concepts: Object-Relational Mapping (ORM), REST APIs, Debugging, Data Protection

Projects

Typo fixer (Python, Django, HTML, CSS, JavaScript)

- Developed a Django-based Text Utility Web App
- Added features like punctuation & space removal, case conversion, text count, reversal and email extraction.
- Used a **single text area input** with multiple operations via Django views and form handling.

Dictionary Web App (Python, Django, PyDictionary, NLTK, Bootstrap)

- Developed web application using Django that fetches meanings, synonyms, and antonyms of words.
- Utilized PyDictionary and NLTK WordNet for lexical data processing.
- Implemented user-friendly frontend with Bootstrap and integrated Django views & form handling for dynamic word queries.

Online Banking Management System (Python, Django, SQL, HTML, CSS)

- Built a web-based system with dual interfaces for customers (account, fund transfers, transaction history) and admin (user management, monitoring).
- Implemented authentication, role-based access, and CRUD operations using Django ORM with SQL
- Designed a responsive and user-friendly UI with HTML & CSS for seamless interaction.

Employee Management System (Java, SQL, JDBC)

- Developed a desktop-based system to manage employee records, attendance, and payroll.
- Implemented CRUD operations with SQL database for efficient data handling.
- Designed an interactive interface in Java for smooth user experience.

Internship/Training

Talentship Global Advisory Forum

- Worked on developing and optimizing Python-based applications to support internal tools and processes.
- Assisted in writing clean, efficient, and reusable code for web and backend functionalities.
- Collaborated with cross-functional teams to gather requirements and implement software solutions.
- Debugged and resolved coding issues, improving application performance and reliability.
- Used version control tools like Git to manage codebase and track changes.
- Automated repetitive tasks and data processing workflows using Python scripts.
- Participated in code reviews and learned best practices in software development and team collaboration.

JMD GROUP

- Collected, cleaned, and analysed large datasets to support business decision-making processes.
- Used Python libraries such as Pandas and NumPy to perform data manipulation and statistical analysis.
- Created visualizations and reports using tools like Matplotlib and Tableau to highlight trends and insights.
- Automated data processing tasks to improve efficiency and reduce manual effort.
- Worked with team members to understand data requirements and deliver actionable solutions.
- Identified patterns and anomalies in data to support forecasting and strategic planning.
- Assisted in preparing presentations and reports for stakeholders, ensuring data accuracy and clarity.

Research Work

Dissertation - An Explainable Multi-Disease Prediction and Lifestyle Recommendation System using Hybrid AI Models

- Developing a predictive healthcare system using hybrid AI models for multi-disease detection.
- Incorporating explainable AI for transparent predictions & personalized lifestyle recommendations.
- Conducting experiments and analysis to validate accuracy and practical applicability.

Certifications & Training

- Web Programming with Python – Anudip Foundation
- Advance Java Programming – Anudip Foundation