

# Aman Kumar

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## SKILLS

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**Languages:** Python, Core Java, SQL, Typescript, JavaScript, HTML/CSS

**Frameworks:** Angular, Django, Flask

**Tools:** SQL Server, Jupyter Notebook, Google Colab, AnaConda, Git, VS Code, Visual Studio, Pycharm, Eclipse, rest-API, Power-BI, Vertex AI, Amazon bedrock, GCP, AWS

**Knowledge and Experties:** Data Structures and Algorithm, Machine learning (Supervised, Unsupervised, Reinforcement learning), Deep learning (CNN, RNN, LLMs), Exploratory data analysis, Large Language Models, Generative AI, Prompt-Engineering, Huggingface

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Tensorflow, NLTK, scikit-learn

**Certificates:** GATE Score-card 2024 (Data Science and AI), Python DSA (IIT Madras), Prompt Engineering techniques (GCP), Generative AI fundamentals (GCP), Generative AI for developers (AWS)

## EXPERIENCE

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### Senior Developer/Artificial Intelligence

2024 – Present

*Coforge Limited*

*Pune, Maharashtra*

- Developed and deployed full-stack applications with Angular for the frontend, Django and Flask for the backend, and SQL Server for database management, successfully creating and integrating more than 30 APIs and 20 Dynamic Store Procedures to ensure seamless functionality.
- Accelerated project timelines, reducing development time from 1 year to 6 months by leveraging dynamic data procedures, lazy loading, and other advanced optimization techniques for both frontend and backend systems.
- Secured 2nd position in a competitive hackathon, surpassing 186 core tech teams within the organization, showcasing exceptional problem-solving and technical skills.
- Implemented advanced AI technologies, including Vertex AI, Document AI, OpenAI models, Gemini Flash 1.5, Phi-3 and Hugging Face Models to build innovative solutions, enhancing user experience and application efficiency.
- Explored state-of-the-art machine learning technologies, utilizing Hugging Face APIs to develop three proof-of-concept projects: a Banking Chatbot, TaxGPT for tax assistance, and HealthSense AI for personalized health analytics.
- Optimized UI/UX performance by leveraging PrimeNG components, improving application responsiveness and delivering smooth user experiences in enterprise-grade applications.

### Software Engineer/Data Science

2022 – 2024

*HCL Technologies*

*Pune, Maharashtra*

- Developed a resume classification and ranking model using the LLM- Gemini flash 1.5 and Prompt engineering techniques in collaboration with Google.
- Got rewarded for completing the Generative AI fundamentals and prompt engineering techniques within first 50 members in organisation.
- Developed a fine tuned chat-bot specifically for the application using context prompting and OpenAI api.
- Successfully learned Generative AI, LLMs, Data Science, and Machine learning tools for 6 months and implemented a Flask (Python) project utilizing GenAI GPT-2 model API.
- Documented 70 training sessions and 3 projects, ensuring timely delivery to manager.
- Achieved 8.6 rating in appraisal for technical improvements, effort, and discipline.

## PROJECTS

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**HealthSense AI** | Angular, Django, SQL server, Google OAuth2, GCP Document AI, Vertex AI, Google fitness API

- \* Developed a HealthSense AI module that allows users to upload complex health reports in image or document format, which are then summarized into easy-to-understand insights using Document AI by GCP

- \* Built a symptoms chatbot leveraging Azure Health services, enabling users to get accurate symptom analysis and guidance.
- \* Integrated Google Fit APIs to fetch past week's activity data, visualized using Chart.js for steps and calorie tracking.
- \* Designed and implemented the full-stack architecture, including Angular for the frontend, Flask/Django for the backend, and SQL for database management, ensuring smooth application performance.

#### **Resume classification and ranking- Gemeni (LLM) | Python, Jupyter Notebook, Google SDK, LLM**

- \* Developed a maintenance module, which contains the model that will categorize the resume and then rank it with the specific reasons using prompt engineering to fine tune the Fundamental LLM (Gemeni falsh 1.5 pro.).
- \* Created a maintenance module, which contains the functionality of extraction of the data from the job descriptions as well as resumes.
- \* Created the pipeline to store the data in the bucket and then process the data accordingly.
- \* Created a well detailed documented from of jupyter notebook of the model with clear instructions.

#### **removBG | Python, Flask, PIL, Vs Code, rembg, HTML, CSS**

- \* Created Flask application that removes image backgrounds and delivers the processed image as output.
- \* Integrated the rembg and PIL libraries to achieve efficient background removal functionalities.
- \* Git-hub Link : <https://github.com/Aman-Kumar-AI/removeBG>

#### **Textual Analysis on Blogs | Python, Pandas, Jupiter Notebook, Vs Code, beautifulsoup, TextBlob**

- \* Designed a comprehensive text analysis tool capable of processing a large collection of text documents, performing sentiment analysis, and extracting key metrics.
- \* Extracted text content from over 100 blogs using BeautifulSoup, focusing on relevant article content and excluding extraneous data.
- \* Cleaned and analyzed the extracted text data, generating an output Excel sheet with various metrics like polarity, word count, positive word count, etc.

## EDUCATION

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### **Government Engineering college Vaishali**

*Bachelor's of technology in Electronics and communication (CGPA - 8.39)*

Vaishali, Bihar

*August 2018 – August 2022*

### **K M Academy**

*Intermediate (Percentage - 78.4)*

Munger, Bihar

*April 2015 – April 2017*

## ACCOMPLISHMENTS

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### **GATE 2024**

Data Science and Artificial Intelligence

*All IndiaRank: 4437*

### **GATE 2022**

Electronics and Communication

*All IndiaRank: 7940*