Aman Kumar

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SKILLS

Languages: Python, Core Java, SQL, Typesrcript, JavaScript, HTML/CSS

Frameworks: Angular, Django ,FastAPI, Flask

Tools:SQL Server, Pycharm, Jupyter Notebook, Google Colab, AnaConda, Git, VS Code, Visual Studio, Pycharm,Eclipse, Vertex AI, Amazon bedrock, GCP, AWS, Azure AI/ML

Knowledge and Experties: Data Structures and Algorithm, SOLID Principles, LLD Patterns, ML-Ops, CI/CD Pipelines, Vector DB, rest-API, Machine learning (Supervised, Unsupervised, Reinforcement learning), Deep learning(CNN, RNN, LLMs), Exploratory data analysis, Large Language Models, Generative AI, Prompt-Engineering, Huggingface

Libraries: Chart-js, Langchain, AutoGen Pandas, NumPy, Matplotlib, Seaborn, Tenslorflow, NTLK, 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

Senior Developer/Artificial Intelligence
2024 – Present

Coforge Limited
Pune, Maharashtra

- Developed and deployed full-stack applications with Angular for the frontend, Django and fastAPI for the backend, SQL Server for database management, and Azure AI for open AI integration, successfully creating and integrating more than 50 APIs and 50 dynamic stored procedures to ensure seamless functionality.
- Accelerated project timelines, reducing development time from 1 year to 6 months by leveraging dynamic data procedures, lazy loading, SOLID Principles, singleton, decorator patterns 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.
- As a Full Stack Developer, provided flexibility to the team by willingly taking up high-load and cross-functional tasks across both frontend and backend components, ensuring consistent project progress and technical support.

Software Engineer/Data Science
2022 – 2024

HCL Technologies
Pune, Maharashtra

- Developed a resume classification and ranking model using the LLM- Gemeni 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

RASA - AI Powered Analytics Platform | *Python, Django, FastAPI, SQL, OpenAI, Angular, SQL Server, Azure AI*

* Worked as a Full Stack Developer on an enterprise-grade analytics platform integrating advanced AI capabilities and real-time data processing.
* Researched and implemented AI-driven features including token management, prompt engineering, and API optimization for dynamic content generation.
* Designed and developed 50+ robust REST APIs and an equivalent number of optimized stored procedures using Django ORM, CTEs, subqueries, and indexing to ensure seamless performance and scalability.
* Integrated FastAPI for high-throughput batch file uploads with real-time progress updates on UI, reducing average upload time by 70%.
* Architected and implemented dynamic, drill-down dashboards using Chart.js for business stakeholders, enabling faster decision-making and data-driven insights.
* Implemented lazy loading, modular API structures, and database-level optimizations to enhance UI responsiveness and reduce load times by 40%–70%.
* Applied SOLID principles to backend architecture; created a Singleton logger and a custom decorator for unified logging across all services.
* Led the end-to-end integration of PrimeNG components with backend APIs and stored procedures to deliver complex interactive features with maintainable codebase.

HealthSense AI | *Angular, Django, SQL server, Google OAuth2, Azure 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 Azure AI
* Built a symptoms chatbot leveraging Azure Health services (Microsoft Platform services to build AI chatbots), 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.

EDUCATION

Government Engineering college Vaishali   Vaishali, Bihar
Bachelor's of technology in Electronics and communication (CGPA - 8.39)   *August 2018 – August 2022*

K M Academy   Munger, Bihar
Intermediate (Percentage - 78.4)   *April 2015 – April 2017*

ACCOMPLISHMENTS

GATE 2024   Data Science and Artificial Intelligence

All IndiaRank: 4437

GATE 2022   Electronics and Communication

All IndiaRank: 7940