

Hemant Garg

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Summary

Experienced in developing advanced solutions using **Python, PySpark, and OpenAI**, specializing in **forecasting models, recommendation engines, and AI-powered Copilots** for streamlined data research and retrieval. Skilled in **data engineering**, including **ETL pipeline development, data modeling, and optimization**. Proficient in **Azure cloud services, microservices architecture, and CI/CD pipelines**, with a strong focus on **AI/ML integration** to enhance performance and innovation.

Experience

MAQ Software, Noida Software Engineer

08/2023 – Present

- Developed and enhanced a **recommendation engine** for a large-scale tech conference, providing personalized session recommendations for approximately **200K users** based on their profiles and session data.
- Processed data for approximately **200K users**, leveraging **Python and PySpark** to generate tailored session recommendations.
- Developed an **AI-powered Copilot** for a multi-national client, optimizing data research using Python, OpenAI, and Azure Search Index.
- Developed data extraction, processing and storage pipelines, enhancing data retrieval efficiency.
- Utilized expert-level **prompt engineering** techniques to craft **customized prompts**, ensuring **OpenAI-generated** responses accurately aligned with the provided content and delivered reliable user query results.
- Deployed containerized **Advanced RAG** applications leveraging **Azure Machine Learning Workspace** environment and **Docker**, enabling seamless integration and scalable deployment of AI-driven query processing capabilities.
- Developed a secure and scalable architecture integrating **Azure Web App, API Management, Key Vault, and role-based access control** to ensure secure authentication and governance for Copilot services.
- Developed and optimized data processing workflows using **Azure Databricks, ADLS, and Azure Search**, streamlining data enrichment, indexing, and retrieval processes while ensuring **Azure security** best practices compliance.

MAQ Software, Noida Associate Software Engineer

02/2023 – 07/2023

- Developed a **forecasting model** for annual cash flow, leveraging five years of invoice data, improving financial planning **accuracy by 10%**.
- Led data cleaning initiatives, ensuring data integrity by rectifying inconsistencies and handling missing values.
- Utilized **Python, PySpark, and Scikit-learn** for data processing and machine learning model development.
- Implemented synthetic data generation using the **SDV library**, creating future invoice predictions based on historical trends.

Education

Thapar Institute of Engineering and Technology Bachelor of Engineering CGPA: 8.56

2019 – 2023

Technologies

Languages: Python, PySpark, SQL, C/C++

Frameworks/Tools: Azure, Azure DevOps, Git, Docker, SSMS, SSIS

Miscellaneous: Agile methodology, CI/CD, Microservice, AI/ML Integration, Prompt Engineering

Certifications

- **Microsoft Certified: Azure Developer Associate** - Built end-to-end solutions in Microsoft Azure, including creating Azure Functions, implementing and managing web apps, developing solutions utilizing Azure storage, and more.
- **Microsoft Certified: Azure AI Engineer Associate** - Designed and implemented an Azure AI solution using Azure AI services, Azure AI Search, and Azure OpenAI.

Accomplishments

- Solved **300+ Data Structures and Algorithms** problems across platforms like LeetCode, Codeforces, and HackerRank.
- Automated **CI/CD pipelines** using Azure DevOps, reducing deployment time by **70%**.
- Developed an **AI-driven chatbot** leveraging OpenAI APIs, reducing support queries by **50%**.