RAMESH KUMAR

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Highly motivated and skilled Senior System Engineer with nearly **3 years** of experience in developing **AI/ML** solutions. Adept at creating Python-based applications, leveraging AI techniques to drive innovation and optimize processes. Skilled at writing Python code, Exploring AI models and creating documentation about the performance and accuracy of the AI models. Seeking new challenges and opportunities as an **AI/ML Developer** to contribute to organizational success.

WORK EXPERIENCE

Senior System Engineer, Infosys Ltd.- Data Scientist   **Jan 2021 – Present**

➢ **NaviAssist:** Developed a ChatGPT-like interface for Sales, Employee, and Finance using the **Haystack** framework and **OpenAI model**, reducing 70% of manual search time with 30% improved performance.

➢ **Document Summarization:** Implemented a system using Haystack and **LLM** for creating concise and readable summaries from large documents.

➢ **Doc QA:** Developed a document QA system using **Retrieval Augmented Generation (RAG)** and **LangChain** frameworks, resulting in decrease 60% response time and 50% increase in positive feedback.

➢ **Ticket Classification:** Implemented a ML and NLP technique to classify employee queries and automate response emails, resulting in reducing the 80% time spent on manual replies.

➢ **LunchPad:** Implemented an LLM-powered solution for extracting and verifying candidate details, reducing 90% manual effort, and 60% enhancement business productivity.

➢ **RAG Democratization:** Embedded various document types into an elastic document store using Haystack and **Ada embedding**.

➢ **Generic Regression Solution:** Designed a model for regression datasets, generating low-variance predictions and a single pickle file.

➢ **BE Forecasting:** Forecasted employee estimates using a regression-based model incorporating multiple features like Recommendation and Revenue.

Intern, Ministry of Electronics and Information Technology, Delhi   **Jan 2020 – May 2020**

➢ Analyzed data using machine learning algorithms with Python Scikit-Learn.

➢ Generated capacity planning reports using Python packages like NumPy and Matplotlib.

➢ Cleaned and processed third-party spending data using Excel macros and Python libraries.

➢ Managed datasets using Panda data frames and MySQL.

➢ Built modular and maintainable applications using the Python Flask framework.

SKILLS

➢ Programming Languages: Python, SQL

➢ Frameworks: Transformers, Scikit Learn, NLTK, Haystack, Gradio, LangChain, Flask, FastAPI

➢ Tools: VS Code, PyCharm, Spyder, Jupyter Notebook, Anaconda

➢ Domains: AI, ML, Data Science

➢ Libraries: NumPy, Pandas, Matplotlib, Seaborn

➢ Skills: NLP, Artificial Intelligence, Time Series Analysis Languages: Hindi, English

CERTIFICATIONS

➢ Machine Learning Training from MEITY 2020

EDUCATION

➢ Master of Computer Application (MCA), Central University of Haryana, 2020

➢ Bachelor of Computer Application (BCA), Magadh University, Patna, 2017