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 manual search time.
* **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 improving response times and reducing manual effort.
* **Ticket Classification:** Implemented a transformer-based model to classify employee queries and automate response emails, significantly reducing the time spent on manual replies.
* **LunchPad:** Implemented an LLM-powered solution for extracting and verifying candidate details, reducing manual effort, and enhancing 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