

# 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:** Engineered a ChatGPT-like interface for Sales, Employee, and Finance using **Haystack** framework and **OpenAI model**, reducing manual search time by 70% and improving performance by 30%.
- **Document Summarization:** Implemented a system using Haystack and **LLM** for creating concise and readable summaries from large documents, enhancing document accessibility, and understanding.
- **Doc QA:** Developed a document QA system using **Retrieval Augmented Generation (RAG)** and **LangChain** frameworks, decreasing response time by 60% and increasing positive feedback by 50%.
- **Ticket Classification:** Deployed a ML and NLP technique to classify employee queries and automate response emails, reducing the 80% time spent on manual replies.
- **LunchPad:** Implemented an LLM-powered solution for extracting and verifying candidate details, resulting in reducing manual effort by 90%, and enhancement business productivity by 60%.
- **RAG Democratization:** Executed a system embedding various document types into an elastic document store using Haystack and Ada embedding, improving document retrieval and accessibility.
- **Generic Regression Solution:** Designed a solution for regression datasets, generating low-variance predictions and a single pickle file for efficient model deployment.
- **BE Forecasting:** Forecasted employee estimates using a regression-based model incorporating multiple features like Recommendation and Revenue, improving forecasting accuracy.

### Intern, Ministry of Electronics and Information Technology, Delhi

Jan 2020 – May 2020

- Analyzed data with Python Scikit-Learn, supporting data-driven decision, and Generated capacity planning reports using NumPy and Matplotlib.
- Processed third-party spending data using Excel macros and Python libraries, ensuring data accuracy.
- Managed datasets with Pandas and MySQL and developed scalable web application with Python Flask.

## 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