# DHANANJAY KUMAR

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## EDUCATION

**Bangalore Institute of Technology**     Bengaluru, India

Bachelor in Engineering     July 2020 – May 2024

Artificial Intelligence and Machine Learning     CGPA: 7.8

## SKILLS SUMMARY

- **Programming Languages:** Python, Java, SQL
- **Frameworks & Libraries:** Pandas, Matplotlib, Scikit-Learn, Spring Boot, LangChain, HuggingFaceHub, NLP.
- **Tools & Technologies:** IntelliJ IDEA, Postman, Insomnia, PyCharm, Jupyter Notebook, DBeaver, Visual Studio Code, Excel.

## EXPERIENCE

**TARGET**     Feb – Aug 2024

**Software Engineer Intern**

- Built an application to fetch and compare user data from two different endpoints using respective APIs and report in CSV file.
- Utilized OAuth 2.0 for secure data retrieval from both endpoints.
- Developed a mailing service that reduced report distribution time by 30%.
- Ensured the generated CSV report was 95% accurate.
- Tech used: IntelliJ, Java 8, OpenCSV, Insomnia, OAuth 2.0, Spring, JPA, REST APIs, LDAP, git version control.

## PROJECTS

**Chatpdf – Retrieval Augmented Generation |** LINK

- Developed an AI-powered PDF chatbot using LangChain for seamless document querying.
- Implemented Retrieval-Augmented Generation (RAG) to enhance response accuracy.
- Converted documents into chunks of data further to vector for better performance.
- Leveraged LangChain & NLP techniques to improve contextual understanding and responses quality.
- Tech used: LangChain, ChatOpenAI, HuggingFaceHub, Pinecone, Cohere, PyPDF2.

**Machine Learning Model on House price Data |** LINK

- Implemented a machine learning model to predict house prices based on various features such as location, size, and amenities.
- Conducted data preprocessing, feature engineering, and exploratory data analysis.
- Utilized regression techniques and evaluated model performance using metrics like RMSE and MAE.
- Achieved an accuracy of 97%.
- Tech used: Python, Pandas, Scikit-Learn, Trees.

## COURSES

Neural Networks & Deep Learning | CERTIFICATE     August 2022