

Appari N V M Sai Kalyan

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SKILLS

Programming Languages: Java, Python, Data Structures and Algorithms, HTML, CSS
Technologies/Tools: Power BI, Power Point, Pandas, Matplotlib, scikit-learn, Docker, Maven
Databases: SQL, MySQL, Data Base Design, Normalization
Developer Tools: Git/Github, Google Colab, Jupyter Notebook, Vs Code

CERTIFICATIONS

- IBM DevOps and Software Engineering (Coursera) [Link](#) 📄
- Cloud Computing (NPTEL/Swayam) [Link](#) 📄
- Explore a career in Front End Development (LinkedIN) [Link](#) 📄
- Dynamic Programming and Greedy Algorithms (Coursera) [Link](#) 📄

EXPERIENCE

Virtual Intern | TechSaksham (Microsoft & SAP in partnership with AICTE) Dec 2024 – Jan 2025

- **SMS Spam Detection Project:** Worked on detecting spam messages using machine learning. Successfully designed and implemented a model leveraging NLP techniques for accurate spam classification.
- **Skill Development:** Enhanced foundational AI skills by completing guided training sessions, with hands-on experience in Python, machine learning, and AI technologies.

PROJECTS

Movie Recommendation System ([Project Link](#)) 📄 Machine Learning and Recommender System

- Developed a machine learning-based movie recommendation system, leveraging collaborative and content-based filtering techniques.
- Implemented matrix factorization (SVD) to optimize recommendation accuracy, achieving significant improvement measured by RMSE.
- Built an app-like user interface using Python's Streamlit for real-time movie suggestions, enhancing usability and engagement.
- **Tools and Technologies:** Python, Pandas, scikit-learn, nltk, Streamlit.

HR Database Case Study ([Project Link](#)) 📄 DBMS and SQL

- Worked on the HR sample database, a comprehensive dataset with seven tables: employees, jobs, departments, job history, locations, countries, and regions, originally created by Microsoft for database tutorials.
- Wrote advanced SQL queries to extract and analyze data, including employee details, departmental information, and hierarchical relationships.
- **Tools and Technologies:** MySQL, HR sample database.

Indian Language Classification ([Project Link](#)) 📄 Natural Language Processing

- Developed a Natural Language Processing (NLP) model to classify Indian languages using n-gram language models and other NLP techniques.
- Focused on accurately identifying the language of a given text sample among multiple Indian languages, considering diverse linguistic structures and scripts.
- Utilized n-gram models for feature extraction and implemented character-level analysis to handle language-specific nuances effectively.
- Addressed challenges such as polysemy, morphological richness, and language diversity across India for robust classification performance.
- **Tools and Technologies:** Python, NLTK, scikit-learn, custom datasets.

EDUCATION

Lovely Professional University August 2022 – Present
Bachelor of Technology in Computer Science and Engineering Punjab, India

- CGPA: 8.1/10.0