Raveendra Siraparapu

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Summary — Motivated computer science student with hands-on experience in web development. Proficient in Python and eager to contribute to impactful projects.

Skills

Languages : Python, HTML, CSS, JavaScript
DataBases : MongoDB
Libraries : ReactJS, NumPy, Pandas, Matplotlib
Tools : VS Code, Postman, Spyder
DevOps : Git, GitHub, Jenkins, Docker, AWS S3, AWS EC2
Course Work : Data Structures, DBMS, Data Mining

Projects

Automated Backup Service

- Technologies used: **MongoDB, Express.JS, React.JS, Node.JS, AWS S3**
- **Implemented a Automation System** using MERN Stack with user-friendly UI.
- **Encryption and Compression** is used for data security.
- **QR based restoration** for flexibility.

Image to PDF converter

- Technologies used: **Python, FPDF**
- **Developed a Script to Convert Images to PDF**: Created a Python script using `FPDF` to resize all images in a directory to A4 size and merge them into a single PDF document
- **Implemented Error Handling**: Integrated robust error handling to detect and skip corrupted or unsupported image files, ensuring smooth execution even with diverse image formats.
- **Automated Image Processing**: Automated the process of reading, resizing, and converting images in multiple formats (JPG, PNG) into a unified PDF format with user-friendly output.

BMI Calculator

- Technologies used: **HTML, CSS, JavaScript**
- **Built a BMI calculator** using HTML, CSS, and JavaScript for a user-friendly interface.
- **Implemented BMI calculation** and categorized results into four health ranges.
- **Provided real-time results** with instant feedback on BMI and health category.

Internships

SkillDzire - ML Intern

- **Utilized Machine Learning Techniques**: Applied Naive Bayes for classification, Apriori for association rule mining, and clustering techniques (K-means, DBSCAN, etc) to analyze and extract insights from datasets.
- **Data Preprocessing and Feature Engineering**: Cleaned and preprocessed large datasets, including handling missing values, normalizing data, and performing feature engineering to improve model accuracy.
- **Evaluated Model Performance**: Conducted performance evaluations using various metrics (accuracy, precision, recall) and fine-tuned hyperparameters to optimize model performance.

Education

B.Tech - CSE
Sasi Institute of Technology & Engineering *2022 - Present*
CGPA: 7.2

Intermediate
Govt Junior College, Pentapadu *2020 - 2022*

Certifications

- *The Joy of Computing in Python by **NPTEL** : 68%*
- *Python for Data Science by **NPTEL** : 64%*
- *Python (Basic) **HackerRank***
- *Java (Basic) **HackerRank***