Smriti Raj

LinkedIn | GitHub |

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TECHNICAL SKILLS

Programming Languages	:	Python,C/c++,JAVA,SQL,Solidity,HTML,CSS
Frameworks	:	React.js, Express, Node.js
Data Analysis and visualization	:	jupyter lab,Excel,Power BI(Basics)
Libraries	:	Pandas,Numpy,Tensorflow,keras,Seaborn,Pytorch
Areas of Inter-est	:	Data Analysis,Machine Learning,Blockchain,IoT

EDUCATION

PES university,Bangalore	**CGPA:8.93**
Bachelor of Technology in Computer Science	*2021 - present*
Sri Chaitanya PU college,Bangalore	**Percentage:93.8**
Central Board of Secondary Education -12th	*2021*
Sri Chaitanya Techno school,Tumkur	**Percentage:96.7**
Central Board of Secondary Education -10th	*2019*

PROJECTS

DATA-DRIVEN CUSTOMER SEGMENTATION USING K-MEANS CLUSTERING   *Python*

- Developed a customer segmentation model using **K-Means clustering** to identify distinct customer groups.
- Preprocessed data with **scaling and handled missing** values for accurate clustering.
- Determined optimal clusters using the **Elbow Method** for meaningful segmentation. ·Visualized customer segments using **Seaborn and Matplotlib**.
- Implemented the project in Jupyter Notebook using Python libraries:**Pandas, NumPy, Scikit-learn**

COMPREHENSIVE FINANCIAL FORECASTING AND ANALYSIS DASHBOARD   *SQL,Python,PowerBI*

- Created an **interactive Power BI** dashboard to project future financial performance, utilizing historical data for accurate trend analysis.
- Designed and implemented a **relational SQL database schema** to manage and store financial data effectively.
- Applied **SQL forecasting techniques to** predict future financial performance based on historical trends.

- Developed dynamic Power BI visualizations, including **time series charts and variance analysis**, for actionable insights.

BLOCKCHAIN-BASED MUSIC APP WITH DYNAMIC ROYALTY MANAGEMENT   *Solidity,Python,Javascript,React*

- Developed a blockchain-based music DApp with **dynamic royalty management** to ensure fair and transparent distribution of royalties.
- Implemented smart contracts in **Solidity** for secure and automated royalty transactions and NFT management.
- Utilized **IPFS for decentralized and immutable storage** of music files and metadata
- Implemented song recommendation using **content based filtering** for better listening experience

CERTIfiCATIONS

- Problem solving (intermediate)skills by hackerrank
- Linux Kernel development by the LINUX FOUNDATION
- Google Data Analytics Professional Certificate(certificate by December 2024)