MEDIKONDA AKHILESH

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WORK EXPERIENCE

SDE Intern | BlueStock Fintech **Jan 2025 - Present**

- Developed a production-level **IPO web application** and **REST API** to provide IPO-related information, including company logo, name, price band, opening and closing dates, issue size, and more.
- Built and styled the frontend using **HTML**, **CSS**, **JavaScript**, and **Bootstrap 5**.
- Utilized **PostgreSQL** for database management, ensuring seamless data storage and retrieval.
- Collaborated with the team using **Git** & **GitHub** for version control and employed **Postman** for API testing.

EDUCATION

Bachelor of Technology in Computational Engineering **Nov 2021 - Present**
Indian Institute of Technology, Hyderabad | Sangareddy, Telangana
CGPA **: 7.8**

Intermediate Education **May 2019 - Sep 2021**
Sri Chaitanya Junior Kalasala | Hyderabad, Telangana
Percentage: **97.8%**

SKILLS

- Programming Languages: **C, C++, HTML, Tailwind CSS, JavaScript, Python**
- Data Analysis: **SQL, Tableau, Power Bi, MS Excel**
- Digital Marketing Skills: **Google Analytics, SEO, SEM**
- Soft Skills: Problem Solving, Analytical Thinking, Communication Skills

PROJECTS

COVID-19 Data Analysis & Visualization Project | View

- Analyzed **1M+ global COVID-19** records using **SQL** to calculate total cases, deaths, and death percentages. Applied **window functions**, **CTEs**, and **aggregations** to track infection rates and vaccination progress, improving query efficiency by **30%**.
- Used **SQL joins** and **partitioned window functions** to calculate rolling vaccination rates and correlate them with case and death trends, providing actionable insights into vaccination impact.
- Built **interactive Tableau visualizations**, including **geo-mapped infection hotspots** and **vaccination trends**, enabling real-time tracking of pandemic metrics.
- Implemented **data cleaning** (handling NULLs, invalid values) and created **temporary tables** for scalable, reusable analysis, supporting future pandemic response strategies.

Real Estate Sales Data Analysis | View

- **Cleaned and transformed 56K+ Nashville housing records** using **SQL** and **Python**, achieving **98% data accuracy** by standardizing addresses, handling nulls, and deduplicating records.
- Developed **interactive visualizations** (**Matplotlib**, **Seaborn**) to analyze **pricing trends**, **property distributions**, **correlations**, and **temporal sales patterns**, deriving key market insights.
- Improved data processing speed by **40%** through **optimized SQL queries** and efficient **Pandas transformations**, enhancing overall workflow efficiency

Movies Data Analysis & Predictive Modeling | View

- Leveraged **Python** (**Pandas**, **Seaborn**, **Matplotlib**) to clean and preprocess **7,000+ movie datasets**, addressing missing values and standardizing 81,315 entries. Automated outlier detection and feature engineering to enhance data reliability for downstream analysis.
- Built **Linear Regression**, **Decision Trees**, and **Random Forest** models to predict gross revenue and classify audience ratings. Identified key drivers (e.g., genre, budget) and achieved **78% accuracy** in rating classification using ensemble techniques, enabling targeted audience engagement strategies.
- Created **Power BI dashboards** for **interactive visualizations**, identifying top-performing genres, high-ROI directors, and budget vs. revenue trends, enhancing data-driven decision-making.
- Performed **correlation analysis** between **budget**, **revenue**, and **ratings**, uncovering key patterns that impact movie success and profitability.