Mohammed Talib Chand

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Education

Indian Institute of Technology Madras - Chennai, Tamil Nadu   *2023-Present*
Bachelor's of Science (*BS) - Programming and Data Science*
> The IIT Madras BS Degree in Data Science and Programming provides students with in-depth knowledge in Data Science, Data Analytics and Programming.

Experience

Data Analyst Intern   *Nov 2024 - Feb 2025*
ADM Education & Welfare Society
- Collaborated with team members to collect, clean and validate datasets, enhancing data accuracy by 25% which informed strategic planning.
- Prepared detailed reports on program effectiveness and resource utilization, leading to a 15% improvement in operational efficiency.
- Analyze and interpret complex dataset to identify trends, providing actionable insights that increased project success rate by 30%.
- Participate in team discussion and contribute to ongoing data analytics projects, refining skills in data analysis tools and techniques.
- Assisted in designing and implementing data models to predict success of training programs and optimize resource allocation.

Data Science Intern   *Dec 2024 - Jan 2025*
CodeAlpha
- Developed a Car Price Prediction Model using advanced regression techniques improving price accuracy by 15% by performing feature engineering, model tuning and validation, ensuring reliable predictions across various car brands and models.
- Conducted Unemployment Analysis in India by cleaning and visualizing data, identifying key trends in workforce demographics.
- Designed a Sales Prediction Model leveraging time series forecasting, incorporating seasonal and tend components to achieve a 20% improvement in forecasting accuracy, leading to better inventory and demand planning.

Projects

Web Browser Application   [view]
- Built a full featured, Python based web browser application using PyQt5, utilizing QWebEngineView for smooth in-app page rendering and a maximized user interface for enhanced visibility.
- Designed an intuitive navigation toolbar with essential controls (back, forward,reload, and home), incorporating custom icons for enhancing user experience and increasing usability by 40%.
- Developed a responsive URL bar that supports direct URL entry and seamlessly redirects non-URL text to google search, enabling both targeted navigation and quick search functionality.
- Customized the application's branding by setting a unique title, icons, and visual elements, creating a cohesive, professional user experience tailored for ease of use.

E-commerce Sales Analysis Dashboard (Power bi)   **view**

- Created an interactive Power bi dashboard analyzing e-commerce sales data, leading to a 25% increase in sales through data driven decisions.
- Created visualization to show - Profit by Month, Profit by city, Profit by customer, Profit by Sub-category, Quantity by Category and Quantity by Payment Mode.
- Implemented filters for quarterly and overall performance view.
- Developed a suite of customized visualizations, including bar charts, pie chart and donut char, to enhance data interpretation; facilitated better decision-making by identifying actionable insights across 25 unique product categories.

HR Analytics Dashboard (Tableau)   **view**

- Created an HR analytics dashboard in Tableau to visualize key workforce metrics, including job role, gender split, age distribution, salary data and employee growth .
- Analyzed job title distribution and gender demographics with insights on age groups, showing a majority in the 30 to 40 range, to support HR planning.
- VIsualized top earners for compensation benchmarking and tracked workforce growth over time to inform recruitment and retention strategies.
- Utilized Tableau to deliver data-driven insights, empowering strategic HR decision-making and optimizing workforce management.

Skills

Python || SQL || Power BI || Tableau || Pandas || NumPy || Matplotlib || Seaborn || HTML || CSS || Flask || Javascript || PyQt5 || Bootstrap || MS Excel

Concepts: Data Cleaning, Data Visualization, Exploratory Data Analysis, Programming, DBMS (Database Management System), RDBMS, ETL (Extract, Transform, Load), SQL Queries, OOPS (Object Oriented Programming), DSA, Data Mining, Predictive Analytics, Business Analytics, Web development, Statistical Analysis, Descriptive Statistics, Dashboard Development.