Kirat Saran

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EDUCATION

Syracuse University – School of Information Studies   May 2023
Master of Science in Applied Data Science
Core Subjects- Scripting for Data Analysis, Applied Machine Learning, Quantitative Reasoning for Data Science, Data Admin Concepts & DB Management, Business Analytics

B M S College of Engineering, Bangalore, India   Jun 2019
B.E in Information Science and Engineering
Core Subjects- Introduction to Data Science, Data Structures and Algorithms, Programming with Java, Python Programming, Database Management Systems, Unix System Programming

WORK EXPERIENCE

Software Developer, Empower Retirement, Bangalore, India   Jun 2019 - Jul 2021
- Designed, developed and enhanced automated scripts for applications using Python and Shell script which resulted in 95% efficiency.
- Automated processes utilizing Moveit and secure03 in the FTP environment sending out confidential data in a secure environment.
- Provided system administrator support for applications such as BCOM, Tomcat, Weblogic and JIRA and performed service activities such as patch deployment, release, and server maintenance in production as well as UAT.

PROJECTS

Orange Air Airport Management System   Oct 2021 – Dec 2021
- Developed an airport management app using Power Apps and Azure Data Studio (MSSQL).
- App can be used by admins working at such airports to view and update information of passengers, tickets (cancelled and confirmed), flights, and employees to facilitate smooth and easy management.

Covid-19 Analysis in the United States   Oct 2021 – Dec 2021
- Aimed to track and analyse covid outbreak in the United States from 13th Jan 2020 – 7th March 2021 by using data from "covidtracking.com" and to make future predictions.
- Focused on total tests, confirmed cases, hospitalizations, recoveries, and deaths to achieve the same.
- Achieved this by data cleansing, plot visualizations and exploratory analysis using Python libraries like pandas, numpy, matplotlib, seaborn, plotly and Models like Linear regression and Support vector machine.

Hotel Booking Cancellation Analysis   Oct 2021 – Dec 2021
- Cleaned and analysed a dataset consisting of real-life hotel stay data, understood the key drivers that lead to the cancellations of such reservations and better predict who is likely to cancel.
- Applied modelling techniques like Linear modelling, Association rule mining and Support vector machine to find the statistical significance between entities in the dataset and make predictions.
- Used descriptive visualizations and graphs to support our analysis and prediction.

TECHNICAL SKILLS

Programming Languages: Python, R, MSSQL, Java, Web programming, Shell Script
Software: MS Excel (Pivot tables, vlookup, Forecasting, Correlation, Solver optimization, Regression, 3D map), MS Access (tables, relationships, queries), Jupyterhub, Anaconda, R Studio, Tableau, Power BI, Power Apps, Azure Data Studio, Matlab
Databases: Oracle, MySQL, Microsoft SQL server, MongoDB, Data Warehouse
Data Science & Machine Learning: Supervised and Unsupervised Algorithms, Statistical Analysis, Hypothesis Testing
Frameworks & Libraries: Scikit-Learn, Flask, Tensorflow, Keras, REST
Capabilities: Quick Learner, Good Communicator (Oral and Written), Team Player while very comfortable working independently, Time Management
Languages: English, Hindi, Punjabi

LEADERSHIP EXPERIENCE
- Volunteered and led a team of three for registration of 45 people as emergency blood donors for an NGO 'The Saviours'
- Captained and won inter year cricket hostel tournament representing 4th year at BMS College of Engineering.