Deepak Avinash Katuri

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in Deepak-Linkedin　🔗 Deepak-Portfolio

SUMMARY

Master's candidate in Data Science at University of New Haven, with a solid Computer Science background. Experienced Data Analyst Intern at Hackers Daddy, proficient in R, Python, and SQL. Developed impactful dashboards and reports that improved data-driven decision-making. Strong analytical skills and effective communication enhance ability to leverage data for business success

EXPERIENCE

Data Analyst Intern, *Hackers Daddy* ⍈   08/2023 – 05/2024
                                                                 Hyderabad,Telangana
- Analyzed large volumes of security log data using SQL and Python to identify unusual login attempts and threat patterns.
- Assisted the cybersecurity team by preparing dashboards in Power BI/Tableau to visualize attack trends and incident reports.
- Cleaned and organized raw log data from SIEM tools, ensuring accuracy for vulnerability and risk assessments.
- Researched and presented data-driven summaries on emerging cyber threats to improve awareness and defense strategies.

Member, *AIM Technologies*   05/2023 – 07/2023
                                                                 Kakinada,AP
- Performed data cleaning, transformation, and exploratory analysis in R using packages like dplyr and tidyr.
- Created insightful data visualizations with ggplot2 to highlight trends and patterns.
- Applied statistical models and basic machine learning algorithms in R for predictive analysis.
- Conducted an Uber pickups data analysis project, applying ggplot2 for advanced visualization and data storytelling to derive insights that support better decision-making.

EDUCATION

Masters in Data Science, *University of New Haven* ⍈   01/2025 – Present
                                                                 West Haven,CT
- *Current GPA* : (3.77/4.00)
- *Relevant Coursework* : Data Science, Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Distributed and Scalable Data Engineering

Bachelor of Technology in Computer Science, *Lovely Professional University*   07/2020 – 2024
                                                                 Phagwara, India
- *GPA* : 3.26/4 (CGPA : 8.15/10.00)
- *Relevant Coursework* : Data Structures and Algorithms, Database Management Systems, Data Visulization, R Programming, Big Data, Predictive Analysis

SKILLS

Programming languages
C++, Python, R, Java.

Visualization Tools
Tableau Prep, Tableau Desktop, SPSS, MS-Excel, Power-BI.

Libraries & Other
Numpy, Matplotlib, Pandas, TensorFlow, MySQL, Machine learning algorithms.

Methodologies
Exploratory Data Analysis, Statistical Analysis, Predictive Modeling & Forecasting

PROJECTS

Image Caption Generator,   12/2023
Python, TensorFlow, Numpy, Pandas, Google Colab
- Developed an Image Caption Generator to automatically generate descriptive captions for images.
- Designed a Convolutional Neural Network (CNN) for image feature extraction and implemented a Long Short Term Memory (LSTM) for generating captions based on extracted features.
- Conducted data preprocessing and split into testing and validation sets for effective model training and evaluation.

Credit Card Fraud Detection, *ML algorithms, Python, Numpy, SQL*   05/2023
- Exploring classification methods for credit card fraud detection , a comparative analysis .
- I employ the SMOTE algorithm for undersampling and downsampling. The subsequent development of an anti-fraud prediction model incorporates five distinct algorithms—Logistic Regression, KNN, SVM, Decision Tree, and CatBoost.
- Role: Data preprocessing and implementing ML algorithms.

Crop Yeild Prediction, *ML alforithms, Python, Pandas, Matplotlib*   04/2023
- Developed a machine learning model using Random Forest Regressor to predict crop yield based on factors like rainfall, temperature, pesticide use, crop type, and geographic area.
- Performed data preprocessing including cleansing, numerical feature scaling, and one-hot encoding for categorical variables to ensure model accuracy.
- Built a predictive system that forecasts crop yields using user-inputted environmental and geographic variables, aiding agricultural decision-making.

CERTIFICATIONS

Data Visualization with Tableau ⬈
Coursera | Gained hands-on experience in building interactive dashboards and visualizing business data for actionable insights.

IBM Cloud Essentials
edX | Learned the fundamentals of cloud computing, including deployment models, services, and IBM Cloud platform usage.

R Programming ⬈
Coursera | Developed skills in data manipulation, statistical analysis, and visualization using R and its core packages.