

# Deepak Avinash Katuri

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📄 Deepak-Insights

## SUMMARY

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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

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- 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

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- 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 Visualization, R Programming, Big Data, Predictive Analysis

## SKILLS

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### Programming languages

C++, Python, R, Java.

### Libraries & Other

Numpy, Matplotlib, Pandas, TensorFlow, MySQL, Machine learning algorithms.

### Visualization Tools

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

### Methodologies

Exploratory Data Analysis, Statistical Analysis, Predictive Modeling & Forecasting

## PROJECTS

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### 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

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### 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.