SIVASANKARI P

DATA SCIENCE & ANALYTICS PROFESSIONAL

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Career Summary

Data science professional with practical experience in developing data-driven solutions and extracting actionable insights. Completed an internship at Rubixe AI Solutions, utilizing machine learning and data analysis to address real-world challenges. Passionate about leveraging data for strategic decision-making and driving innovation.

Work Experience

Data Scientist Intern | **Rubixe AI Solutions**   **Jul 2024 – Jan 2025 (Remote)**

- Developed a machine learning model to optimize IT Service Management (ITSM) by prioritizing critical tickets for faster resolution.
- Implemented incident volume forecasting, improving resource allocation and technology planning by 20%.
- Predicted Request for Change (RFC) outcomes and detected potential ITSM asset failures, minimizing system downtime by 15%.

Skills & Tools

Machine Learning, Forecasting, Decision Tree Classifier, Random Forest Classifier, ARIMA, Python, Scikit-learn, Pandas, NumPy.

Data Science Intern | **British Airways**   **Jun 2024 – July 2024 (Remote)**

- Scraped web data of customer reviews to better understand user experience.
- Designed and developed a predictive model using sentiment analysis to categorize customer reviews for business insights.
- Engineered a predictive model using machine learning to understand factors that influence the ticket buying behavior of consumers to find trends and increase sales by almost 25%.

Skills & Tools

Web Scraping, Sentiment Analysis, Predictive Modeling, Machine Learning, Natural Language Processing (NLP), Python, BeautifulSoup, Scikit-learn, Pandas, NumPy.

Education

Certified Data Scientist Certification Training | **Datamites Global Training Institute**   **Nov 2024**

M.Sc., Agricultural Economics | **Annamalai University | CGPA – 9.19**   **Feb 2024**

Skills & abilities

Technical Skills

- **Programming Languages:** Python, SQL
- **Data Science:** Machine Learning, Deep Learning, Predictive Modeling, Data Analysis, Statistics
- **Analysis Tools:** Power BI, Excel (Power Query, Power Pivot), Git
- **ML Libraries & Frameworks:** Scikit-learn, TensorFlow, Keras, XGBoost, NLTK
- **Databases:** MySQL

Soft Skills

- Adaptability, Continuous Learning, Problem Solving, Critical Thinking, Communication, Teamwork.

Projects

Rice Leaf Disease Classification Using Convolutional Neural Networks (CNN)
- Implemented a CNN-based deep learning model to classify rice leaf diseases accurately.
- Applied data augmentation techniques to improve model performance on a limited dataset.
- Achieved an accuracy of 87% on the test dataset.

Skills & Tools

Image Classification, CNN, Deep Learning, TensorFlow, Python, NumPy, Pandas, Matplotlib, Seaborn**.**

Walk-Run Classification Using Recurrent Neural Networks (RNN)
- Developed and fine-tuned LSTM and GRU models for sensor-based sequence classification.
- Performed hyperparameter tuning to enhance model accuracy.
- Achieved 99% accuracy with both models.

Skills & Tools

RNN, LSTM, GRU, Deep Learning, TensorFlow, Python, NumPy, Pandas, Matplotlib, Seaborn.

FIFA 20 Players Clustering Based on In-Game Stats
- Applied clustering techniques to group FIFA 20 players based on their in-game attributes.
- Processed a dataset containing 18,278 samples and 104 features.
- Used multiple clustering algorithms and PCA for dimensionality reduction.
- Optimized clustering performance through hyperparameter tuning.

Skills & Tools

K-Means, Hierarchical Clustering, DBSCAN, Gaussian Mixture, OPTICS, PCA, Hyperparameter Tuning, Scikit-learn, Python, NumPy, Pandas, Seaborn, Matplotlib.

Insurance Cost Prediction Using Regression Models
- Designed and optimized a predictive model using multiple regression techniques to estimate insurance costs with high accuracy.
- Conducted data cleaning, preprocessing, and exploratory data analysis (EDA).
- Improved model performance through hyperparameter tuning.
- Achieved an R^2 score of 92.64% using Gradient Boosting.

Skills & Tools

Regression Models (Linear Regression, Support Vector Regressor, Decision Tree Regressor, Random Forest Regressor, Multi-Layer Perceptron Regressor, XGBoost Regressor, Gradient Boosting Regressor), Hyperparameter Tuning, Scikit-learn, Python, NumPy, Pandas, Seaborn, Matplotlib.

Certifications

Certified Data Scientist Assessment **|** NASSCOM	**Mar 2025**
Certified Data Scientist **|** IABAC	**Jan 2025 – Jan 2028**

Professional Training & Certifications

Data Analytics and Visualization Job Simulation | **Accenture North America**
Data Analysis with Python | **IBM**
Machine Learning with Python | **IBM**
Python for Data Science AI and Development | **IBM**
Harnessing the Power of Data with Power BI | **Microsoft**
Excel Power Tools for Data Analysis | **Macquarie University**