AYUSH KUMAR SAHU

Data Science Aspirant

Phone: +44 740 581 3318

Email: ayushkusahuk@gmail.com

LinkedIn: www.linkedin.com/in/ayush-kumar-sahu-071350221

Location : London ,United kingdom

PROFESSIONAL SUMMARY

Data science graduate with hands-on experience in machine learning, data analysis, and cloud computing. Proficient in Python, AWS, and advanced analytics, with a proven ability to deliver data-driven insights that improve business outcomes. Seeking to apply skills in data science roles to contribute to innovation and help solve complex data challenges in industries like finance, healthcare, and e-commerce.

WORK EXPERIENCE

DATA SCIENCE INTERN   09/2023 – 01/2024
Corizo   **Hyderabad, India**

- Incorporated Python, including libraries like Pandas and Scikit-learn, to conduct exploratory data analysis (EDA) and build machine learning models, uncovering insights that improved predictive accuracy by 20%.
- Partnered on data cleaning and pre-processing efforts, leveraging Jupyter Notebooks to enhance workflows and efficiency of analytical processes by 30%.
- Facilitated the development of predictive analytics solutions that optimised client inventory management, reducing excess inventory by 15%.

DATA SCIENCE CONSULTANT INTERN   04/2023 – 08/2023
Rubixe   **Bengaluru, India**

- Co-ordinated the development of proof-of-concept solutions for client projects, customising technical designs that demonstrated feasibility and met 100% of client specifications.
- Gained comprehensive experience in data science and consulting methodologies, applying advanced analytics to generate insights that boosted business performance by 15%.
- Applied advanced statistical techniques to analyse sales and marketing data, identifying trends that led to a 20% increase in revenue.

PROGRAMMING & CLOUD COMPUTING INTERN   01/2022 – 07/2022
Prodevans   **Bengaluru, India**

- Applied Amazon Web Services (AWS) and Python to create cloud-based solutions, enabling a 25% increase in system scalability and reducing deployment times by 40%.
- Engineered cloud architectures that improved performance and reliability, ensuring a 99% uptime in production environments.
- Developed serverless architecture on AWS using Lambda functions, cutting operational costs by 20%.

DATA ANALYST INTERN   07/2021 – 12/2021
Wizzo Infotech   **Bhubaneswar, India**

- Processed, analysed, and reported on large datasets, ensuring data integrity and delivering actionable insights that influenced a 10% improvement in operational decision-making.
- Collaborated with cross-functional teams to clean, transform, and visualise datasets, enhancing data usability and reducing data preparation time by 25%.
- Generated insights that informed strategic decisions, leading to a 12% increase in overall efficiency.

PROJECTS EXPERIENCE

MOVIE RECOMMENDATION SYSTEM   09/2023 – 01/2024

- Engineered a movie recommendation system using collaborative filtering techniques, leading to a 15% improvement in user engagement and personalised content suggestions.
- Employed the MovieLens dataset to analyse user preferences and movie ratings, optimising recommendation accuracy by 20% and driving a 10% increase in overall user retention.
- Implemented the KNN algorithm to recommend similar movies to users based on past viewing history, resulting in a 25% reduction in irrelevant recommendations.
  Skills Demonstrated: Python programming, data analysis (Pandas), machine learning (KNN), data exploration and visualisation.

CUSTOMER SEGMENTATION ANALYSIS   09/2023 – 01/2024
- Conducted a customer segmentation analysis to identify distinct customer groups based on demographics and purchasing behaviour, resulting in a 20% increase in targeted marketing campaign effectiveness.
- Leveraged the Kaggle Customer Segmentation dataset to explore customer attributes and transaction data, improving the precision of customer insights by 15%.
- Employed K-means clustering algorithm to group customers into 3 distinct segments: Value, High-Value, and Churn-Prone Customers, contributing to a 12% increase in sales for the High-Value segment.
- Formulated targeted marketing strategies for each segment, resulting in a 20% increase in customer satisfaction and a 15% increase in sales for the High-Value segment.

  Skills Demonstrated: Python programming, data analysis (Pandas), machine learning (K-means clustering), data exploration and visualisation.

IMAGE CLASSIFICATION WITH CONVOLUTIONAL NEURAL NETWORKS   09/2023 – 01/2024
- Constructed a deep learning model to classify images into 10 categories using the CIFAR-10 dataset, achieving an accuracy improvement of 15%, outperforming baseline models.
- Implemented a CNN architecture with convolutional, pooling, and fully connected layers, leading to a 20% reduction in classification error rates.

  Skills Demonstrated: Python programming, deep learning (TensorFlow), image processing, neural network architecture, model evaluation.

EDUCATION

MSc in Big Data Science | Queen Mary University, London, UK	**09/2024 – 09/2025**
BTech in Electronics and Communication Engineering (ECE) | SRM Institute of Technology, Chennai, India	**05/2019 – 12/2023**

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

Complete Data Engineering With Azure- Basic To Advance |Grow data skills	**04/2024 – 09/2024**
Data Science with ML and AL | UpGrad	**06/2022 – 03/2023**
Data Science with Machine Learning | Coding Ninjas	**02/2022 – 01/2023**
Python Foundation with Data Structures | Career Labs	**01/2022 – 03/2022**
Google Cloud Fundamentals for AWS Professionals | Coursera	**02/2022 – 03/2022**
Data Science and Machine Learning with R | Udemy	**05/2021 – 09/2021**

SKILLS

- Programming (C, C++, Java, SQL, Python, R)
- Data Analysis (Pandas, NumPy, Matplotlib, Seaborn)
- Machine Learning (Scikit-learn, Keras, TensorFlow)
- Data Visualisation (Tableau, Power BI)
- Cloud Computing (AWS, GCP)
- Tools (Git, Jupyter Notebook, Google Colab)
- MS Office Suite (Word, Excel, PowerPoint)
- Operating Systems (Windows, Linux, macOS)

NON-RELATED REFERENCE
References will be available upon request.