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SUMMARY

Dynamic Data Science professional with over 4 years of experience delivering insights and scalable AI solutions across different domains. Skilled in machine learning, NLP, deep learning, and data engineering, with a strong focus on transforming raw data into strategic business value. Adept at leveraging Artificial Intelligence to solve real-world challenges and drive data-driven decision-making.

WORK EXPERIENCE

Data Scientist | University of Houston, Houston, USA

Jun 2024 – Present

- Led large-scale web scraping efforts, extracting and preprocessing thousands of political speeches and articles for advanced text
 analytics.
- Conducted sentiment analysis, Latent Semantic Scaling (LSS), emotional analysis, and topic modeling to uncover insights in political discourse.
- Applied cosine similarity metrics to evaluate document similarity across technical content, future outlook, negation detection, readability, and thematic relevance.
- Built and deployed DistilBERT-based classification models with 80% accuracy, identifying patterns in political rhetoric and public opinion.
- Delivered key insights through dynamic visualizations including word clouds and detailed analytical reports.

Data Science Intern | University of Houston, Houston, USA

May 2024 – Jun 2024

- Applied statistical analysis, time series modeling, and neural networks to geothermal and climate datasets, enhancing model precision.
- Conducted policy effectiveness studies using advanced statistical methods and developed visualizations to communicate results to stakeholders.

Data Scientist | Bharti Airtel Ltd, Pune, India

Aug 2022 – Aug 2023

- Reduced customer churn by 20% by developing predictive models for churn prediction and segmentation, driving data-driven strategies.
- Built executive Tableau dashboards to visualize customer behavior and business KPIs, enhancing stakeholder communication.
- Collaborated with data engineering teams to design scalable ETL pipelines using AWS Glue, EMR, and S3, improving data processing efficiency by 25%.
- Streamlined ELT workflows in Amazon Redshift and maintained ML Ops pipelines using Amazon SageMaker.

Junior Data Scientist | Tata Consultancy Services, Hyderabad, India

Sep 2020 – Aug 2022

- Built and optimized ETL pipelines with PySpark and SQL on Apache Spark, enabling faster big data processing for telecom
 datasets.
- Performed customer analytics and risk segmentation with Python and R, applying statistical methods to support data-driven decision-making.
- Created interactive Power BI dashboards to track KPIs such as churn rate, data usage, and customer lifetime value.
- Led A/B testing initiatives and collaborated in developing clustering and recommendation models using scikit-learn and Databricks, increasing customer engagement by personalizing offers and service recommendations.
- Contributed to a 15% improvement in network performance by delivering actionable data insights.

EDUCATION

University of Houston, Houston, Texas, USA Master of Science in Engineering Data Science | GPA: 3.96/4.0

Aug 2023 - May 2025

SKILLS

Programming Languages: Python, R, Java, C, HTML, SQL, JavaScript, MATLAB

Data Science & ML: Data Mining, EDA, Feature Engineering, Predictive Modeling, Deep Learning, Natural Language Processing, Statistical Modeling, A/B Testing

Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, XGBoost, Pandas, Numpy, Matplotlib, Seaborn, Plotly, NLTK, BERT, spaCy, Hugging Face, Gensim, Flask

Databases: MySQL, Microsoft SQL Server, MongoDB, AWS DynamoDB, PostgreSQL, Amazon S3 **Visualization Tools**: Power BI, Tableau, SAS Visual Analytics, Excel (Pivot Tables, Macros, VBA)

Cloud & Big Data: AWS, GCP, Databricks, PySpark, Kafka, Hadoop, HDFS, Spark

DevOps: Git, Docker

Generative AI: LLMs, Prompt Engineering, Retrieval-Augmented Generation (RAG), LangChain

ACADEMIC PROJECTS

Text Summarization Using BiLSTM, Attention Mechanism, and Pegasus Transformer

Aug 2024 - Dec 2024

- Developed abstractive summarization models for U.S. legislative texts, implementing BiLSTM with GloVe embeddings and Attention Mechanism.
- Fine-tuned Pegasus Transformer to generate high-quality summaries; evaluated models using BERTScore and human assessments.

Café Chatbot Using NLP and PyTorch

Jan 2024 - May 2024

- Developed an interactive café chatbot using NLTK and Flask, deployed on Google Cloud Platform (GCP).
- Designed conversation flows with an intents file and processed user inputs using tokenization, lemmatization, and TF-IDF.
- Trained PyTorch models to handle customer queries and manage café orders, enhancing customer service experiences.

Plant Species Classification Using Leaf Images

Aug 2023 – Dec 2023

- Preprocessed leaf images and built classifiers using CNN models (MobileNetV2, InceptionV3, ResNet50).
- Fine-tuned models using transfer learning and achieved high precision, recall, and F1-scores.

Health Insurance Data Analysis

Aug 2023 – Dec 2023

- Built SAS Visual Analytics dashboards to identify claim anomalies and visualize health insurance trends.
- Leveraged SAS PROC SQL and Enterprise Guide to preprocess and analyze data, producing detailed statistical reports.

CERTIFICATIONS

AWS Certified Cloud Practitioner