Ajay Dyavathi

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SUMMARY

Innovative Data Analyst with a proven track record in leveraging machine learning and AI to drive data-driven insights and optimize performance. Skilled in Python, R, SQL, and advanced data visualization, with a strong ability to translate complex data into actionable strategies for business growth.

EDUCATION

New York Institute of Technology   New York, USA
Master's Degree in Data Science (MSDS)   Jan 2022 - Dec 2023
- Cumulative GPA: 3.94/4.0
- Relevant Coursework: Machine Learning, Statistics, Big Data Analytics, Deep Learning, Databases.

Jawaharlal Nehru Technological University   Telangana, India
Bachelor's Degree in Electronics and Communication Engineering (ECE)   Aug 2016 - Sep 2020
- Relevant Coursework: Programming (C, Java), Database Management Systems, MATLAB.

PROFESSIONAL EXPERIENCE

Avaamo.ai   Bengaluru, India
Conversational AI Engineer   Jan 2021 - Dec 2021
- Analyzed user interaction data to identify trends and patterns, enhancing AI chatbots' performance and user satisfaction.
- Collaborated with cross-functional teams to refine chat agent lifecycle, resulting in scalable solutions.
- Improved website navigation efficiency and customer engagement by 30% through data analysis and actionable insights.
- Deployed and managed over 15 AI chat agents, continuously monitoring performance metrics to optimize user interactions.
- Utilized real-time analytics to revolutionize chatbot communication, significantly enhancing adaptability and precision.

Avaamo.ai   Bengaluru, India
Conversational AI Intern   Sep 2020 - Jan 2021
- Engineered 5 AI chat agents using Natural Language Processing, streamlining website navigation and service inquiries.
- Led data-driven initiatives for AI-driven customer support, significantly improving real-time assistance.
- Reduced user query response time from 3 to 2 seconds by analyzing data and optimizing chat agent performance.
- Applied expertise in AI, Natural Language Processing, and data optimization to enhance digital customer interactions.

SKILLS

- **Languages:** Python, R, SQL
- **Data Analysis/Machine Learning:** NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch.
- **Statistics:** Statistical Analysis, Time-series Analysis, ANOVA, Hypothesis Testing, Bootstrapping.
- **Data Visualization:** Matplotlib, Seaborn, Plotly, Tableau, Power BI, Looker.
- **Techniques:** Data Extraction, Wrangling, Cleaning, Mining, Pipelines, Feature Engineering, Supervised Learning.
- **Big Data:** Hadoop, Spark (PySpark), Apache Kafka.
- **Database Management:** MySQL, PostgreSQL, MongoDB.
- **Tools:** Jupyter Notebooks, Git, GitHub, Docker, Microsoft Azure, AWS, Google BigQuery.
- **Soft skills:** Collaboration, Communication, Problem-Solving, Team Management, Stakeholder Management.

PROJECTS

- **Urban Street Scene Understanding:**
  - PyTorch, UNet, SegNet
  - Developed and implemented semantic segmentation models on the Cityscapes dataset to understand urban street scenes.
  - Achieved 90% accuracy, demonstrating expertise in deep learning and computer vision.
  - Submitted a research paper on this project to Neural Computing and Applications (NCAA).

- **BBC News Articles Clustering:**
  - K-means, NLP, PCA, LDA, t-SNE, Plotly
  - Applied advanced natural language processing techniques to cluster 2225 BBC news articles.
  - Visualized clustered articles with dimensionality reduction and interactive plots, showcasing strong data analysis and visualization skills.

- **ML-based Diagnosis Website:**
  - Django, Scikit-learn, SQLite, AWS EC2
  - Built a tuberculosis diagnosis web platform with ML models (SVM, Random Forest, Gradient Boost), deployed on AWS EC2 for scalability and reliability, showcasing web development and cloud skills.