Ajay Dyavathi

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New York, USA

EXPERIENCE

Svan IT Solutions Inc. **Texas, USA**
Data Analyst *Feb 2024 - Current*
- Employed SQL and Python to collect, clean, and preprocess datasets, achieving a 20% improvement in data accuracy.
- Utilized MS Excel, Tableau, and Pandas for exploratory data analysis, resulting in a 15% increase in project efficiency.
- Developed and automated Power BI reports and dashboards with DAX and SQL, reducing manual reporting time.
- Optimized MySQL databases through indexing and performance tuning, reducing query response time by 30%.

Avaamo.ai **Bengaluru, India**
Conversational AI Engineer *Jan 2021 - Dec 2021*
- Designed and implemented machine learning models for conversational AI, improving response accuracy by 25%.
- 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 Machine Learning to enhance digital customer interactions.

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.

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, Bokeh.
- **Data Analysis Techniques:** ETL, ARIMA, Data Extraction, Data Mining, Data Pipelines, Data Models, Feature Engineering, Supervised/Unsupervised Learning, Deep Learning, Deep Neural Networks, AutoEncoders.
- **Big Data Tools and Web Development:** Hadoop, Spark (PySpark), MLlib, HTML, PHP, JS, Flask, Django, Streamlit.
- **Database Management:** MySQL, PostgreSQL, MongoDB.
- **Tools:** Jupyter Notebooks, Git, GitHub, Docker, Microsoft Azure, AWS, Amazon SageMaker, Google BigQuery.
- **Soft skills:** Collaboration, Communication, Problem-Solving, Team/Project Management, Stakeholder Management.

PROJECTS

- **Urban Street Scene Understanding:**
  - PyTorch, UNet, SegNet
  - Developed and implemented semantic segmentation models on the Cityscapes dataset to analyze urban street scenes.
  - Conducted extensive data preprocessing and exploratory data analysis to uncover key patterns in urban infrastructure.
  - Achieved 90% accuracy in segmentation, providing actionable insights for urban planning and traffic management.
  - Authored a research paper detailing methodologies and findings, submitted to Neural Computing and Applications.

- **Automobile Price Estimation using Hadoop and PySpark**
  - Utilized Hadoop and PySpark for data mining and constructing models to estimate automobile prices.
  - Implemented data processing techniques, including correlation analysis, SMOTE and feature importance assessment.
  - Utilized regression algorithms, such as Linear/Logistic Regression, Random Forest Regressor, and Boosting methods.
  - Achieved high-quality predictive performance with the best model attaining an R2 score of 0.86.