

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.