

AMRUTH DEVINENI

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EDUCATION

Boston University

Master of Science in Data Science | 4.0/4.0

Relevant Coursework: Data Visualization, Statistical Analysis, Machine Learning, Database Management

Boston, MA

Ongoing

Vasavi College of Engineering

B.E CSE (AI & ML) | 3.35/4.0

Hyderabad, India

2020-2024

SKILLS

- Programming: Python, SQL, Java, C, HTML, CSS
- Data & Cloud Tools: Pandas, NumPy, Microsoft Azure (Event Hubs, Data Factory, Synapse Analytics, AutoML), Power BI, Looker Studio, MySQL
- Machine Learning & Analytics: Supervised & Unsupervised Learning, Sentiment Analysis, Statistical Modelling, Feature Engineering, Data Cleaning,
- Predictive Analytics Soft Skills: Collaboration, Business Communication, Problem-Solving, Policy Data Analysis

PROFESSIONAL EXPERIENCE

Data Automation Intern, Infor | INDIA

Feb 2024-May 2024

- Developed and deployed workflows using Infor RPA, improving process efficiency and data analytics by implementing statistical methods that increased operational accuracy by 30%.
- Led client meetings to identify operational challenges, gather requirements for Robotic Process Automation (RPA) solutions and recommend data visualization tools based on data analysis results.
- Automated repetitive tasks by designing, testing, and refining workflows, saving the client 10+ hours per week and applying data science techniques for process optimization.
- Successfully implemented an RPA workflow that enhanced task efficiency and improved client satisfaction ratings through data-driven insights.
- Demonstrated attention to detail by conducting thorough data cleaning and validation processes, ensuring high-quality outputs for stakeholders

PROJECTS

Real-Time Stock Price Prediction with Sentiment Analysis | MA

Sep 2024 – Dec 2024

- Built an ETL pipeline using Python and Azure Data Factory to process structured and unstructured data.
- Trained machine learning models to predict stock prices, achieving an R^2 score of 0.99975.
- Conducted exploratory data analysis (EDA) and data cleaning to ensure high-quality input data.
- Deployed Power BI dashboards to visualize market trends and deliver actionable insights for stakeholders.
- **Tools Used: Python, Microsoft Azure, Scikit-learn, Pandas, NumPy, Power BI, Alpha Vantage AI**

University Accountability Ordinance | MA

Sep 2024 – Dec 2024

- Led a large-scale data analysis initiative to enhance transparency in off-campus student housing.
- Standardized & cleaned 190,000+ student housing records from 30+ universities over the years 2016–2024.
- Applied SQL & Python (Pandas, NumPy) to identify housing violations, revealing 16,000+ violations linked to 196 high-risk buildings.
- Built interactive Looker Studio dashboards to visualize housing trends and policy violations, improving data-driven decision-making.
- Worked directly with Boston City Councilor Liz Breadon to present insights that shaped zoning policies and tenant protection initiatives.
- **Tools Used: Python (Pandas, NumPy), SQL, Looker Studio, Power BI**

Comparative analysis of Sentiment analysis, Natural Language Processing | INDIA

Sep 2023-Apr 2024

- Evaluated 5 sentiment analysis models (BERT, XLNet, CNN, Logistic Regression, Naive Bayes) on the IMDb dataset of **50,000 reviews**.
- Demonstrated an ensemble model achieving a recall of **97.51%**, outperforming individual models in accuracy.
- Research paper accepted for publication, highlighting advancements in comparative analysis of sentiment classifiers.
- **Tools Used: Python (TensorFlow, Scikit-learn), Pandas, NumPy, Google colab**