Yash Thakar

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Education

B.Tech Computer Science & Engineering - Data Science [Honors in Computational Finance],
DJSCE, University of Mumbai (CGPA: 8.36/10)   2025
HSC, 12th Board Examination, Nirmala Memorial Foundation Junior College (96.5%)   2021
SSC, 10th Board Examination, Thakur Vidya Mandir High School (93.2%)   2019

Experience

Data Engineering Intern - Pay with Ring   Jun 2024 - Aug 2024
- Developed Python scripts to facilitate the migration of an existing data warehouse from Snowflake to ClickHouse.
- Enhanced a production-grade tool with AWS Lambda Functions, improving error handling and operational efficiency.
- Implemented a scheduled AWS Lambda function with Airflow to manage a proof-of-concept warehousing cluster, reducing off-hour operational costs.
- Created dashboards of AWS billing data, providing clear insights into high-cost areas for cost optimization.

AI/ML and Back-end Intern - Lawyantra   Nov 2023 - Feb 2024
- Introduced 60+ subcategories for automated case classification in Lawyantra's Gen-AI platform.
- Developed a Lawyer Ranking System architecture and integrated it with the Django REST framework and MySQL.
- Migrated the company's file storage system from AWS EC2 instance store to AWS S3, mitigating data loss risks.

Projects

Fleet Structure Optimization
- Developed a multi-objective optimization algorithm integrating TOPSIS with NSGA-II to minimize fleet costs and carbon emissions over a 16-year horizon.
- Achieved a 28.37% reduction in total cost and 39.95% lower emissions compared to vanilla NSGA-II algorithm.
- Reduced runtime by 36.2% using Python multiprocessing after parallelizing the algorithm.

AirViz - Big Data Pipeline
- Developed a data pipeline for ETL to transfer data from Amazon RDS (PostgreSQL engine) to an AWS Redshift data warehouse using AWS Glue and a spark runtime in AWS.
- Visualized airline flight schedules, airport connections, and airline delays and cancellations using PowerBI.

Olist's E-commerce insights
- Unveiled insights and trends from the Olist data and derived customer segments using RFM analysis.
- Developed ML models for customer segmentation, sales prediction, churn classification, and sentiment analysis.

Achievements

Top 20 at TIAA AI T3 Hack Hackathon:
Our team reached the semifinals and achieved a Top-20 ranking nationally at the Retirement Industry AI Hackathon: T3 Hack, a national-level competition organized by TIAA with over 2000 participants.

Research Published in IEEE Xplore:
We presented a paper titled "Performance Analysis of Hybrid Quantum-Classical Convolutional Neural Networks for Audio Classification" at 15th ICCCNT, IIT Mandi**,** in which we developed a QC-CNN architecture to perform audio classification using mel-spectrograms and achieved comparative performance with classical models.

Skills

Languages: Python, SQL, C
ML and AI: Scikit-learn, TensorFlow, Pytorch, Langchain, Qiskit, Time Series Analysis, Deep Learning, CV, NLP
Data Science: Excel, Tableau, PowerBI, PySpark, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Selenium
Frameworks & Databases: Django, Flask, MySQL, PostgreSQL
Others: AWS, Git, GitHub, Postman, Netlify, Streamlit, Figma

Extra-curriculars

Chairperson - DJSCE Compute   Jun 2023 - Jun 2024
Lead a team of 20+ mentors and 60+ mentees to learn and build Machine Learning, Webdev, and App Dev projects.
Academic Mentor - We Can We Will Foundation   Jun 2023 - Aug 2023