SAI KUMAR GANDHAM

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EDUCATION

Masters of professional studies in Data Science, GPA: 3.83/4.0 ***December 2024***
University of Maryland Baltimore County Maryland, USA
Course Work: Intro to Data Science, Database Management, Big Data, Data Analysis & ML, NLP, Deep Learning, Financial DS

Bachelors in Information Technology, CGPA: 3.58/4.0 ***May 2021***
Anurag University Hyderabad**,** India
Course Work: Data Structures & Algorithms, DBMS, Data Mining, Machine Learning, Probability & Statistics

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, MATLAB, Data Structures & Algorithms
ETL Tools: Python (Pandas, NumPy), SQL, Apache Airflow
Data Modeling & BI Tools: Power BI, Tableau, Microsoft Excel
Relational Databases: MySQL, PostgreSQL, SQL Server
Software & Tools: Jupyter Notebook, Microsoft Office, Anaconda, Databricks, Git, Docker, Linux
Data Engineering & Analysis: ETL Processes, Data Integration, Data Transformation, Data Cleaning, Data Validation, Predictive Modeling, Data Visualization, Machine Learning (Scikit-learn, TensorFlow, Keras, LSTM Networks, Random Forests
Cloud Services: Microsoft Azure, AWS
Miscellaneous: Data Analysis, Data Storytelling, Market Trend Analysis, Financial Data Science, Compliance with Data Governance, Stakeholder Engagement, Project Management, Agile Methodology, Cross-functional Collaboration.

WORK EXPERIENCE

VOSYN INC , INTERN - **Data Strategy Analyst** *Chicago, USA* | ***January 2024 - April 2024***

- Led complex ETL processes to successfully integrate Vosyn API for voice-enabled, real-time localization on smart devices, effectively streamlining data flow, and significantly enhancing the development and performance of Vosyn's Voice Pretrained Transformer (VPT).
- Executed comprehensive data cleaning and transformation processes, meticulously utilizing Python, SQL, and advanced methodologies to prepare large, intricate datasets for detailed analysis, thereby improving data integrity and overall reliability for downstream tasks and projects.
- Engineered robust predictive models using Python and advanced machine learning techniques to accurately forecast customer behavior and product adoption, contributing to strategic, data-driven go-to-market strategies that significantly increased market penetration.
- Collaborated with cross-functional teams to design, develop, and implement sophisticated data models and dynamic visualizations in Power BI and Tableau, which supported critical, high-impact strategic decision-making and reduced reporting time by 20%.

TEMENOS PVT LTD, FULL TIME - **Data Analyst** *India* | ***November 2021- December 2022***

- Managed comprehensive ETL processes for core banking applications (CardSmartMoney, EuroBank), meticulously optimizing critical data pipelines to enhance seamless data integration, significantly improve system performance, and effectively reduce operational bottlenecks and inefficiencies.
- Applied advanced data analysis and machine learning techniques to meticulously identify emerging customer trends and accurately assess loan risks, leading to a substantial 15% improvement in loan approval accuracy and overall operational efficiency across multiple banking functions.
- Developed and validated financial data models using Python and industry-leading best practices, enabling precise, data-driven decision-making that significantly optimized critical banking operations and contributed to a remarkable 22% increase in post-launch application downloads.
- Ensured strict compliance with data governance by rigorously implementing comprehensive data validation, quality checks, and continuous monitoring procedures, maintaining an exceptional 100% accuracy rate in all critical data processing and reporting activities.

VALUEMOMENTUM, TRAINEE - **Data Analyst** *India* | ***June 2021- November 2021***

- Led complex ETL processes to efficiently collect, clean, and transform large-scale insurance claims data, improving accuracy, consistency, and reliability for analysis, reporting, and predictive modeling. Automated workflows to enhance efficiency and reduce manual processing time.
- Thoroughly analyzed over 200 diverse insurance claims datasets, enhancing claims processing efficiency by 20% through insightful, data-driven recommendations and dynamic visualizations using Python, SQL, and Power BI. Optimized techniques to improve processing speed and accuracy.
- Developed advanced predictive models and algorithms to accurately forecast claims outcomes and optimize critical decision-making processes, contributing to a notable 12% increase in stakeholder engagement through more accurate, timely, and actionable insights.

ANURAG UNIVERSITY - Teaching Assistant *India* | ***August 2018 – May 2021***

- Led labs and lectures in Machine Learning, DBMS, and Artificial Intelligence, utilizing SQL, Excel, and Power BI to boost analytical skills.
- Developed comprehensive course materials, led workshops on advanced data science techniques, and collaborated with professors on high-profile research projects, employing tools like **Excel**, **Python**, **JIRA** and **PowerPoint** to drive curriculum innovation and enhance data-driven decision-making.
- Guided data analysis projects with Python and Tableau, driving a 15% improvement in student performance through data-driven methods.

PROJECTS

Conversational Analytics: Empowering Data Exploration with NLP

- Engineered complex ETL processes for seamless integration of large, unstructured datasets with advanced NLP algorithms, ensuring high data integrity.
- Developed interactive and dynamic dashboards in Power BI, enabling real-time data exploration and delivering actionable business insights.
- Significantly improved query efficiency by 30% and reduced analysis time by 25% through advanced system optimization and workflow automation.
- Leveraged Azure Cognitive Services to enhance sophisticated natural language processing capabilities, greatly improving user experience.
  Technologies Used: *ETL Processes, NLP (Natural Language Processing), Azure Cognitive Services, Power BI*

FinForecast: Advanced Financial Market Prediction

- Developed a robust financial market prediction model utilizing advanced ETL processes to efficiently handle large volumes of real-time financial data, consistently achieving over 80% accuracy in predicting stock prices and cryptocurrency values, thereby enhancing investment decision-making.
- Engineered complex, scalable ETL pipelines for seamless data integration into sophisticated machine learning models, significantly mitigating financial risk by 15% through highly optimized, data-driven predictions, and proactively reducing potential financial losses.
- Designed a user-friendly interface for strategic financial planning, enabling users to interact with predictions and make informed, data-driven decisions.
  Technologies Used: E*TL Processes, Python, Keras, TensorFlow (LSTM networks), Scikit-learn (Random Forests, Gradient Boosting Machines)*

CERTIFICATIONS

Database Programming with SQL - Oracle Academy
Data Analytics - IBM
Python and C++ - Cisco
Data science and Business analytics - Board Infinity

Extra Curricular Activities

Tutoring **|** Attending Tech Conferences **|** Volunteering for Tech Events