

Sai Eshwar Tadepalli

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EDUCATION

University of Utah, David Eccles School of Business

Salt Lake City, UT

Master of Science, Business Analytics (Information Systems)

January 2023 - May 2024

- Relevant Courses: Data Mining, Algorithms for Business Decisions, Data Engineering, Machine Learning, Data Visualization using Power-BI, Database Theory & Design, Analytical Decision Model, Python Programming (Computer Science)

SKILLS

Databases: NetSuite, SQL, NoSQL (MongoDB), Snowflake, Google BigQuery

Data Movement & Integration: Dell Boomi, Incorta (for ETL and data visualization), Postman (for API testing and integration)

BI Tools: Tableau, Adobe Analytics, Google Analytics, Alteryx, DOMO, Google Looker, Power BI

Data Visualization: Grafana, Elastic Kibana

Programming/ Analytical Languages: Python, R, C, Java, Linux

Cloud Platforms: AWS (Redshift, S3, Glue, Athena, Kinesis), Microsoft Azure, Google Cloud Platform

Cloud Tools: Kubernetes, Apache Airflow, Google Cloud Dataflow, Google Cloud Bigtable

Containers and Orchestration: Docker

Infrastructure Automation: Terraform, Ansible

Other Tools: Spark, HTML5, CSS4, Rest API, Bootstrap, JavaScript, Kafka, Apache Airflow

SaaS Tools: Salesforce, Device Magic, Slack

Creative Tools: Adobe Premiere Pro, Adobe Photoshop

Statistical Methods: Clustering, Classification, A/B Testing, Regression, Deep Learning, Artificial Intelligence

Forecasting Models: Facebook Prophet, Exponential Smoothing

Advanced Modeling Techniques: Random Forest, XGBoost, Neural Networks

Soft Skills & Customer Engagement: Creative and Technical Writing, Customer Service

EXPERIENCE

Applications Analyst

Salt Lake City, UT

DHI (Dalbo Holdings Inc.)

May 2024 – Present

- Managed the entire lifecycle of applications at DHI, from development to maintenance, ensuring alignment with business needs and enhancing operational efficiency.
- Collaborated with developers and software providers to integrate and optimize software solutions such as NetSuite, Salesforce, and Dell Boomi, improving system performance and user experience.
- Utilized ETL processes for efficient data movement from on-premises to cloud infrastructure, significantly enhancing data accessibility and reliability.
- Led a successful cloud migration project, reducing system latency and enhancing data recovery processes, while also employing advanced data visualization tools like Incorta for strategic decision-making.

Graduate Teaching Assistant- Data Engineering, Project Management

Salt Lake City, UT

University of Utah, David Eccles School of Business

August 2023 – May 2024

- Established a collaborative learning environment, guiding students in data engineering projects, resulting in a 20% improvement in project completion rates.
- Provided personalized assistance during office hours, fostering an engaging learning process, and achieving a 15% increase in student participation and a 12% improvement in overall course satisfaction.

Sports Data Analyst Intern

Salt Lake City, UT

University of Utah Athletics

May 2023 – September 2023

- Employed strategic approaches to streamline processes in the development of a web application, enhancing communication among coaches. This resulted in a notable 25% reduction in miscommunication errors and a commendable 15% increase in game strategy efficiency.
- Maintained a high level of attention to detail in the specification and implementation of ETL/ELT real-time data pipelines, contributing to a remarkable 20% enhancement in athlete recovery time and a significant 10% decrease in injury incidents.
- Managed time effectively to meet project deadlines, ensuring the design and execution of data pipelines were completed within specified timelines. This contributed to a notable 30% reduction in preventable injuries and a commendable 15% increase in overall team performance.
- Documented project methodologies and outcomes comprehensively to facilitate knowledge transfer and reproducibility.

Data Engineering, Assistant System Engineer

Hyderabad, India

Tata Consultancy Services

January 2021 – December 2022

- Leveraged Unix operating systems to streamline SQL query optimization, achieving a 25% boost in database performance and a 20% decrease in network traffic, significantly optimizing system responsiveness. Automated routine tasks within the Unix Bash environment, enhancing the shell's functionality and efficiency, and reducing manual overhead.
- Spearheaded the deployment of machine learning algorithms in data analysis tasks to predict trends and automate decision-making processes, contributing to the refinement of infrastructure operations. Pioneered the use of computer vision techniques in data processing, which played a critical role in analyzing complex datasets and extracting insights, facilitating innovative solutions in project deliverables.
- Implemented Agile methodologies to manage the development lifecycle of data engineering tasks, ensuring rapid iteration and continuous improvement in deployment practices. Engaged in collaborative problem-solving within a cross-functional team, applying machine learning insights to resolve ad-hoc challenges and automate 14 critical debugging scripts.

PROJECTS

Production Planning, Marketing Analytics and Demand Forecasting for Swire Coca-Cola *April 2024*

- Conducted pattern analysis and utilized sales trends of similar products to forecast demand for new beverages, integrating market variables and demographic data for precision.
- Leveraged Python and SQL within Google BigQuery for data analysis, and Tableau for insightful visualizations, culminating in a robust predictive modeling platform.
- Designed and executed machine learning algorithms to estimate weekly demand for innovative products, optimizing production planning and resource allocation.
- Developed a front-end interactive website using HTML, CSS, and Javascript, integrated with Flask, to allow users to provide feedback. Feedback data was stored efficiently using SQLite database, enhancing user engagement and facilitating data-driven decision-making alongside production planning, marketing analytics, and demand forecasting efforts for Swire Coca-Cola in April 2024.

Full Stack Data Engineering Project: Streaming Platform Recommendation System *March 2024*

- Developed a comprehensive recommendation system for a streaming platform, integrating advanced data scraping and machine learning techniques to enhance user experience.
- Utilized HTML, CSS, JavaScript, Angular and Bootstrap to design and implement a responsive front-end user interface, optimizing the visual presentation of user interaction. Programmed the recommendation logic using Python with Flask, incorporating machine learning algorithms to provide personalized content suggestions based on user preferences.
- Applied Natural Language Processing (NLP) techniques such as TF-IDF and sentiment analysis to refine recommendations and improve relevance. Orchestrated data extraction from multiple sources including IMDb, leveraging Python scripts and RAPID API keys to amass a rich dataset for analysis.
- Employed data normalization strategies to ensure consistency and integrity of the collected data, facilitating more accurate insights and predictions. Analyzed large datasets using Looker Studio and BigQuery, extracting key metrics for deeper insights into user behavior and content performance. Created compelling data visualizations with Tableau, presenting findings that inform data-driven decisions to optimize content strategy and user engagement.

Super Bowl LVIII – Game Day Analytics *February 2024*

- Demonstrated strategic thinking in orchestrating the Super Bowl LVIII Game Day Analytics initiative during the project phase, leveraging Twitter's API and Alteryx automation tool to analyze 85% of commercial data, providing actionable insights to brand advertisers. Provided recommendations based on key metrics such as engagements per tweet and post-game brand growth, resulting in a 10% reduction in marketing expenditure for advertisers through refined strategies.
- Ensured the delivery of high-quality solutions by developing and presenting 10 interactive dashboards using Tableau, Adobe Express, and Domo, effectively communicating insights to sponsors for strategic decision-making on their advertisements.
- Demonstrated proficiency in data manipulation and analysis by utilizing Twitter's API to extract relevant data for educational purposes during the Super Bowl LVIII – Game Day Analytics project.

British Airways Data Science Simulation on Forage *November 2023*

- Analyzed a marketing dataset of 10,000 consumer reviews, resulting in a 29% increase in identifying customer preferences and pain points.
- Constructed a predictive model for decision-making, contributing to an 18% boost in loyalty metrics.

Canvas Application – Transactional Database *April 2023*

- Developed a transactional database achieving a 30% boost in data retrieval speeds and a 25% cut in query response times.
- Orchestrated business requirement collaborations and devised conceptual, logical, and physical data models to heighten data reporting accuracy and system performance.
- Engineered an API to facilitate automatic grading within Canvas from Google Sheets, enhancing educational process efficiency. Utilized Google Colab for project development and used Looker for visualizing student performance, successfully creating a functional prototype.

CERTIFICATIONS

- Microsoft Certified: Azure Data Engineer Associate, Microsoft Certified: Power BI Data Analyst Associate
- Certified Business Analysis Professional – CBAP (Simplilearn)
- Google Data Analytics Professional Certificate, Google Business Intelligence Professional Certificate (Coursera)
- Google Analytics Certificate (Google)
- Problem-Solving Strategies for Data Engineers, Six Sigma: Green Belt (LinkedIn Learning)
- Natural Language Processing in Python, Big Data with PySpark, Data Engineer Certification, Machine Learning Engineer Certification (DataCamp)
- CBO Xceed: Data Network Administration Intermediate Certificate (Tata Consultancy Services)

ACTIVITIES

- 1st Place Winner of Capstone Competition – David Eccles School of Business
- Participant of Gen-AI Hackathon 2024 – David Eccles School of Business
- Representative of Leadership Business Student Government – David Eccles School of Business
- Financial Planning Coordinator at Indian Geotechnical Society – Student Chapter BVRIT
- Social media (Facebook, Instagram, Twitter) Promotions Lead – Cultural Club BVRIT