JEEVANASREE AVANAGANTI

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EDUCATION:

Florida State University, Tallahassee, FL Expected Dec 2025
Masters in Data Science 3.86/4.0 GPA

Coursework*:* **Machine Learning**, Time Series and Forecasting Methods, Data Management and analysis, Database Systems, Introduction to Data Science, Statistics in Application-I, Statistical Data Analysis (SAS) Data Management

PROFESSIONAL EXPERIENCE:

Florida Department of Health | Distributed Systems Analyst Intern March 2025 - Present

- Built interactive, real-time Power BI dashboards to visualize customer data, helping stakeholders make data-backed decisions faster
- Consolidated data from Excel, SQL Server, and SharePoint into centralized Power BI reports, reducing manual data collection and accelerating insights by 30%
- Developed responsive Power Apps for digitizing 500+ monthly health service requests, integrated with SharePoint and Dataverse, enabling faster case resolution and cross-device access
- Automated high-volume approval workflows using Power Automate, reducing task processing time by 40% and increasing team efficiency across departments
- Ensured data security and scalability across Power Platform solutions by implementing role-based access controls, data loss prevention (DLP) policies, and app-sharing best practices

Tata Consultancy Services India | Data Analyst May 2021 – Nov 2023

- Managed and optimized Oracle SQL databases with over 1M customer records, tasked with improving data quality, implemented data validation rules and indexing, resulting in a 99% data accuracy rate and 20% faster query execution
- Built dynamic Power BI dashboards for sales and customer behavior insights, drawing from SQL-based data pipelines, reducing reporting turnaround time by 30% and enabling leadership to act faster on market trends
- Cleaned and preprocessed over 500K rows of sales and return data using Pandas and NumPy, resolving missing values and duplicates, which improved model readiness and reporting quality by 25%
- Automated routine data maintenance processes using Python and SQL, reducing manual intervention by 40%. Improved workflow efficiency and ensured consistent, high-quality data for analysis
- Integrated RESTful APIs to enable real-time synchronization of sales, order, and return data between customer management systems and retailer applications. Enhanced data accessibility and reporting accuracy, driving a 25% improvement in operational efficiency
- Designed, tested, and refined advanced SQL queries to efficiently extract, update, and analyze large-scale datasets in Oracle databases. Ensured seamless data integration and accurate reporting, improving query performance by 20%
- Designed and implemented A/B testing frameworks to assess and optimize product features and marketing strategies, resulting in a 20% increase in user engagement through data-driven decisions
- Analyzed and streamlined data workflows, identifying inefficiencies in data pipelines and reducing data processing time by 30%. Improved data availability for business intelligence tasks and reduced reporting delays
- Planned and executed high-impact data projects aligned with business objectives, achieving 95% on-time delivery. Delivered actionable insights through clear, concise reports and presentations, simplifying complex data for non-technical stakeholders
- Led a team of five developers, increasing productivity by 50% and partnered with cross-functional teams to implement and integrate new data features, aligning with business objectives and enhancing project outcomes through effective collaboration
- Mentored version control and code deployment through Git repositories, facilitating seamless team collaboration and maintaining code integrity across development processes

ACADEMIC PROJECTS:

Image Classification Model using Machine Learning

- Developed an end-to-end machine learning pipeline for image classification, utilizing OpenCV for face detection, wavelet transforms for feature engineering, and Support Vector Machines (SVM) for model training
- Executed comprehensive data cleaning and preprocessing, including image cropping and filtering using Haar cascades, to ensure high-quality input data, and applied both manual and automated techniques to prepare the dataset for training
- Optimized model performance through hyperparameter tuning with GridSearchCV, achieving high accuracy, and evaluated results using classification reports and confusion matrix visualizations with seaborn
- Built and deployed a Flask-based backend server to serve the trained model for real-time image classification, integrating with a user-friendly front-end designed using HTML, CSS, JavaScript, and jQuery

TECHNICAL SKILLS:

Programming Languages*:* Python, SQL, R, Java, C, HTML, CSS, JavaScript
Data Science & Machine Learning: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Regression, Classification, Clustering, Time Series Analysis, Hypothesis Testing, Data Analysis
Data Visualization & BI: Power BI, Excel (PivotTables, Power Query, Macros), PowerPoint
Database & Tools: Oracle Database, Git, SharePoint, Microsoft Word
Automation & Workflow Tools: Power Automate, Power Apps, SharePoint, Dataverse, RESTful APIs