SAI KIRAN SIKILAMMETLA

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Summary

Computer Science Master's student with a keen interest in machine learning and Python full-stack development. Building a solid foundation in programming, data analysis, and web development through hands-on academic projects. Passionate about applying technical skills to solve real-world problems and eager to contribute to innovative projects in a dynamic, collaborative environment.

Technical Skills

- **Languages:** Python, Java, JavaScript, SQL, HTML, CSS, R
- **Databases:** MySQL, PostgreSQL, Query Optimization
- **Web Technologies:** ReactJS, NodeJS, Bootstrap
- **Cloud & Tools:** Microsoft Azure (AZ-900 Certified), Jupyter Notebook, kali Linux
- **Analytic Tools:** Tableau, Power BI, Excel, Data Analysis
- **Networking & Security:** Security Basics
- **Technical Concepts:** Machine Learning Libraries, Model Training, Data Validation, Predictive Analytics

Work Experience

Machine Learning Intern **Jul 2024 – Dec 2024**

Tekreant India Private Limited *Hyderabad, India*

- Engineered and trained predictive machine learning models using Python and standard ML libraries to support internal tooling.
- Cleaned, validated, and analyzed large datasets, performing feature engineering to improve overall data quality and model performance.
- Collaborated with senior engineers to evaluate model accuracy, iterating on algorithms to optimize predictive outcomes.

Projects

Student Management Web Application

- Developed a full-stack web application to effectively manage student, instructor, and course records for an academic institution.
- Designed a responsive and user-friendly frontend utilizing HTML, CSS, JavaScript, and Bootstrap to support seamless CRUD operations.
- Integrated the application with a MySQL database to ensure reliable persistence storage, structured data retrieval, and basic access authentication.
- Implemented structured SQL queries to handle complex data relationships between students, faculty, and enrolled courses.

Financial Anomaly Detection System

- Built a machine learning model to detect anomalies in time-series data, establishing a robust system for fraud detection in financial transactions.
- Utilized Python and data analysis libraries to clean, preprocess, and analyze large-scale transactional datasets.
- Evaluated model performance and predictive accuracy to minimize false positives and improve overall detection reliability.
- Stored and tracked experimental data within Jupyter Notebooks to document the feature engineering and modeling process.

Automated Music Genre Classification

- Designed and implemented a hybrid Convolutional and Recurrent Neural Network (CNN-RNN) model to automatically analyze and classify audio files into distinct genres.
- Extracted and processed complex audio features from raw datasets to effectively train the deep learning

model.
- Tuned model hyperparameters and optimized training workflows to achieve high classification accuracy.
- Demonstrated proficiency in Python and deep learning algorithms by managing the entire pipeline from data ingestion to model evaluation.

Sales Prediction & Performance Dashboard
- Developed an interactive Tableau dashboard to visualize complex sales data, successfully uncovering top-performing regions and identifying a 25% sales growth opportunity.
- Implemented predictive analytics workflows using Python to forecast future sales trends and highlight high-value customer segments.
- Enabled data-driven decision-making by utilizing calculated fields to reveal seasonal patterns and actionable business insights.
- Connected data sources to ensure seamless updates and accurate tracking of underperforming products.

Task Management System | .NET Core MVC, C#, SQLite, Bootstrap
- Developed a comprehensive task management application using the Model-View-Controller (MVC) architecture to streamline personal and administrative workflows.
- Engineered a secure backend using C# and ASP.NET Core, implementing Dependency Injection for logging and service management to ensure modularity and scalability.
- Designed and optimized a SQLite database schema to handle persistent storage, executing complex CRUD operations for task creation, status updates, and user-specific data retrieval.
- Built a responsive, interactive frontend using Razor Pages, JavaScript, and Bootstrap, featuring dynamic form population and real-time task tracking.

Education

Rowan University New Jersey, USA
Master of Science in Computer Science *Jan 2025 – Dec 2026 (Expected)*
*** GPA: 4.0 / 4.0**

Relevant Coursework: Advanced Database Systems, Advanced Algorithm Design, Cyber Defense, Network Security, Cloud Computing, Web Services Platforms, Systems Administration.

Certifications

- **Microsoft Certified: Azure Fundamentals (AZ-900) |** Microsoft
- **Python Programming Course** | CodeTantra
- **Java Programming Course** | CodeTantra