Rohith Chakinarapu

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Professional summary

Data-driven graduate student pursuing a Master's in Applied Security and Analytics with hands-on experience in SQL, Python, Tableau, Power BI, and data visualization. Skilled in extracting, analysing, and presenting complex data to drive informed business decisions and enhance operational efficiency. Experienced in academic and industry-based projects involving machine learning, clustering, and predictive analytics. Recognized for strong analytical thinking, effective communication, and the ability to deliver impactful results in fast-paced environments.

Technical skills

- **Programming & Query Languages**: Python, SQL, C, HTML, CSS
- **Data Visualization & Reporting**: Tableau, Power BI, Excel
- **Machine Learning & Analytics**: Scikit-learn, Pandas, NumPy, Keras, Statistical Modeling
- **Database & Tools**: MySQL, XAMPP, Google Colab, Jupyter Notebook

Education

Master of Science – Applied Security and Analytics

University of Findlay – USA

- Coursework: Advanced Software Engineering, SQL, Python, Tableau, Data Analytics and Visualization, Statistical Modeling

Bachelor of Engineering – Information Technology

Vasavi College of Engineering – India

Diploma – Computer Science

Government College of Polytechnic, Masab Tank – India

Projects

Comparison of Embedding Models for Clustering Findlay Newsroom Articles | University of Findlay | 2024

- Designed and implemented Word2Vec, GloVe, and BERT-based clustering models to analyze 1,000+ Findlay Newsroom articles, improving topic classification and interpretability for university communications.
- Evaluated model performance using Silhouette Score and Davies–Bouldin Index, enhancing the accuracy and reliability of clustering outcomes.
- Generated PCA, t-SNE, and UMAP visualizations to effectively present cluster patterns; project guided by Prof. Dominic Wilson and selected for poster presentation.

Stock Market Prediction using Deep Learning

- Developed an LSTM-based deep learning model to forecast stock market trends using historical financial data.
- Improved prediction accuracy by fine-tuning hyperparameters and validating performance with RMSE metrics.

- Visualized predicted vs. actual trends using Python and Keras, enabling data-driven insights for investment decisions.

Farmer's Buddy – Crop Disease Detection
- Built a machine learning-based image classification system to identify crop leaf diseases by comparing against pre-labeled datasets.
- Increased detection accuracy and provided actionable recommendations for farmers to prevent crop loss.
- Applied computer vision and pattern recognition techniques to support agricultural decision-making.

Experience

Creatick Solutions – Intern, Web Development   Nov 2018 – May 2019

- Designed and maintained interactive web applications using PHP, HTML, and XAMPP for dynamic local server environments.
- Enhanced system performance and debugging efficiency through optimized code and data validation practices.
- Collaborated with developers to implement responsive web design, improving project delivery timelines and usability.

MediaMint Pvt. Ltd. – Trainee T1 (Pinterest Analytics)   Feb 2022 – Apr 2022

- Analyzed Pinterest engagement metrics and audience behavior using Excel and SQL to generate performance insights.
- Created detailed reports highlighting user trends and actions, supporting content optimization strategies.
- Improved data reporting efficiency by 20% through structured tracking systems and actionable analytics.

Skill-Lync Edu-Tech Company – Inside Sales Specialist   Aug 2022 – Oct 2022

- Consulted with over 40 students to identify learning needs and recommend best-fit courses, contributing to improved conversion outcomes.
- Utilized data-driven decision-making to match student profiles with appropriate learning programs, enhancing student satisfaction.
- Strengthened interpersonal communication and analytical skills through consistent collaboration with academic teams.

Certifications
- NPTEL – Introduction to Machine Learning | SWAYAM |2021
- Coursera – 3D Models for Virtual Reality | University of London |2020
- LinkedIn Learning – Cybersecurity Foundations | 2024
- Montreat College – Cybersecurity Code (Center of Academic Excellence in Cyber Defense) | 2024