Sandeep Srinivas Pogula

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EDUCATION

Master of Science (MS) Information Systems, *University College Dublin*   Sep 2023 – Sep 2024 | Dublin, Ireland
1H, First Class Honours
Coursework: Machine Learning, AI, Quantitative Data Analysis with R Programming, Informatics, Project Management.

PROFESSIONAL EXPERIENCE

Programmer Analyst, *Cognizant*   Dec 2020 – May 2023 | Bengaluru, India
- Involved in data pre-processing, statistical analysis, data visualization, and predictive modeling.
- Developed and deployed production-ready **NLP models** for text classification and sentiment analysis using **Python, NLTK, and VADER**, improving customer feedback processing efficiency.
- Built and maintained Python ETL pipelines with error handling to process 10K+ daily customer data.
- Maintained ML models for anomaly detection in customer records and transaction data, helping identify potential fraud cases.
- Created dashboards using Python to visualize healthcare claims patterns and model performance metrics.
- Implemented automated unit testing and documentation practices.

Intern, *Cognizant*   Feb 2020 – Jun 2020 | Pune, India
- Conducted user research & feedback gathering insights on product ideas & features for Salesforce Service Cloud.
- Led the resolution of various user stories by debugging, testing, and deploying solutions to production.
- Played a key role in the customization of SFDC (Salesforce) by creating and deploying custom objects, page layouts, custom tabs, and components, tailoring them to align with the specific needs and requirements of the client.
- Acted as a consultant for troubleshooting and defect resolution, handling incidents, service requests, and CRM ticket management on the Salesforce Service Cloud.
- Acquired proficiency in Salesforce CRM Management through hands-on learning using Trailhead, gaining valuable insights into the platform's capabilities and functionalities.
- Effectively logged and tracked defects using Jira, ensuring prompt identification and resolution of issues.

SKILLS

Python: NumPy, Pandas, Data Analysis, Modeling, ML, NLP ● **R Programming:** Data Manipulation, Data Viz ●
Web Technologies: HTML5, CSS, JS ● **Salesforce:** SFDC Admin, CRM, Lightning Web Components (LWC), SQL ●
Testing: Selenium, Automation Testing

CERTIFICATES

Salesforce Certified Administrator ⌗ ● Python for Data Science ⌗ ● Salesforce Certified Platform Developer I ⌗

PROJECTS

Large Language Models' Security Audit & Vulnerability Assessment, *ChatGPT, Gemini, Fine-tuning, Jailbreak* ⌗
- Conducted a security audit and vulnerability assessment of the following LLMs: ChatGPT, Google Gemini, and Mistral-Medium, focusing on manipulation through jailbreaking and fine-tuning.
- Developed custom datasets of harmful prompts and Gemini 1.0 Pro model using the Deepmind Studio API, achieving a 100% harmful response rate.
- Highlighted the potential for misuse of LLMs and the need for safety.

Coding Platform, *Full Stack Web development (HTML, CSS, JS, Firebase, D3.js, Judge0 API)* ⌗
- Interactive tree structure roadmap visualization of learning paths with curated DSA problem sets
- Integrated code editor with syntax highlighting and auto-save functionality
- Real-time code execution and testing against multiple test cases
- User authentication and progress tracking across devices
- Responsive design for seamless use on desktop and mobile

Analysing 15 Years of News Headlines, *Python, ML, NLP, NLTK, VADER, Data viz, Big Data, Sentiment analysis* ⌗
- Conducted machine learning analysis on 4.5 million news headlines (2007-2022) from top U.S. digital news outlets.
- Implemented Latent Dirichlet Allocation (LDA) for topic modeling
- Applied VADER sentiment analysis to track headline emotional valence
- Visualized topic trends and sentiment patterns across news outlets and over time

Conference Management System, *Salesforce CRM, GMaps API, Payment Gateway Integration*
- Created interfaces for managing multiple conferences, sessions, and speakers
- Implemented speaker assignment functionality for single or multiple conferences
- Integrated Google Maps API for venue search and selection, and payment gateway for session bookings

LANGUAGES

English ● Hindi ● Telugu