DEEPAN CHANDRU

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SUMMARY

Computer Science graduate specializing in Artificial Intelligence and Cybersecurity, with hands-on experience in developing secure, scalable LLM-based applications using Langflow. Skilled in Python, prompt engineering, threat detection, phishing URL detection, and AI automation. Seeking to leverage AI and security expertise to build intelligent, real-time cyber defense systems in high-impact environments.

EDUCATION

B.TECH. Computer Science and Engineering with Specialization in Cyber Security, (**Sept 2021 - June 2025**)

- SRM Institute of Science and Technology **CGPA**: 7.71

TECHINCAL SKILLS

- **LANGUAGES:** Python
- **Tools and Libraries:** Wireshark, Nmap, Burpsuite, Power BI, TensorFlow, Pytorch, Langflow, Git
- **Cloud Technologies:** AWS (Lambda, S3, EC2)
- **Concepts:** Agile, RAG (Retrieval Augmented Generation), Vulnerability Assessment & Penetration Testing (VA/PT), Application Security, SIEM Monitoring, Incident Response

EXPERIENCE

DATA SCIENTIST INTERN | GRADTWIN | FEB 2025 – APRIL 2025

- Spearheaded advanced feature engineering techniques, slashing ML model training time by 30% and amplifying accuracy by 12%.
- Architected hyperparameter tuning frameworks, driving a 15% uplift in model predictive power and decision-making accuracy.
- Developed end-to-end automation pipelines that expedited data preprocessing by 40%, optimizing real-time analytics. Engineered state-of-the-art deep learning architectures in TensorFlow, reducing classification error rates by 18%.
- Automated and optimized large-scale data workflows, accelerating dataset transformation by 50% and unlocking seamless scalability.

PERSONAL PROJECTS

REAL-TIME PHISHING URL DETECTION USING ENSEMBLE LEARNING (Jan 2025 – May 2025)

- Engineered a high-throughput URL intelligence engine in Python that processed 10,000 URLs/min and reduced phishing bypass incidents by 8.6% in live email streams.
- Developed and tuned an ensemble ML classifier (Random Forest, XGBoost, CatBoost) in Scikit-learn, boosting detection precision by 19% over static blacklist baselines.
- Reverse-engineered obfuscated phishing patterns from a 50,000+ URL corpus, deriving heuristic signatures that increased recall by 22%.
- Collaborated with security analysts to calibrate model thresholds, cutting false positives by 15% without compromising detection rates.

SUPERVISED POLARITY CLASSIFICATION OF TWEETS USING NLP (Aug 2024 – Dec 2024)

- Ingested and cleaned a 1.6 million-tweet dataset using NLTK and SpaCy, improving data quality and enabling robust feature extraction.
- Benchmarked multiple sentiment classifiers (Logistic Regression, Random Forest) in Scikit-learn, achieving 90% accuracy and a 30% performance uplift versus rule-based methods.
- Optimized model inference pipeline for real-time sentiment analysis, achieving sub-200 ms latency and supporting high-volume datasets.
- Built an interactive Streamlit dashboard to visualize sentiment trends for product and marketing teams, accelerating insight delivery by 40%.
- Performed rigorous validation and stress testing on the sentiment model, improving prediction stability by 22%
- and confirming its accuracy across varied Twitter data streams.

CERTIFICATIONS

- SOFTWARE ENGINEERING JOB SIMULATION (J P MORGAN CHASE & CO)
- CYBER SECURITY JOB SIMULATION (J P MORGAN CHASE & CO)
- DATA SCIENCE METHODOLOGY (IBM)
- IT SUPPORT SPECIALIST (MICROSOFT)