Ananya Uppal

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SKILLS

Languages & Databases	Python, C/C++, Ruby, SQL, Java, MATLAB, SAS, MongoDB, React.js, HTML, CSS
Technical Tools	Docker, REST API, Git, XML, Linux, PyTorch, Jenkins, Jira, GenAI, LLM, GNN
Skills	Machine Learning, Data Science, Automation, Firewalls, PanoramaOS, Algorithms, Big Data, Framework Testing, Cybersecurity, Blockchain

EDUCATION

Purdue University, Master of Computer and Information Technology **Grade: 4.0/4.0** Aug 2024 - May 2026
Coursework: Responsible Data Science(RDS), IT Data Analytics, Statistics, HCI, AI, IT Project Management. Member of RDS Lab, thesis work on Explainable AI with Dr. Romila Pradhan.

PES University, Bachelor of Technology in Computer Science **Grade: 9.06/10** Aug 2019 - May 2023
Coursework: Big Data, Information Retrieval, Network Analysis and Mining, OS, DBMS, Object Oriented Design. 6-time awardee of the MRD Scholarship (Awarded to top 20% performers of semester).

EXPERIENCE

Data Science Intern, Leen, *San Fransisco, CA* July 2025 - August 2025

- Designed connectors for API-based data models to map and consolidate GRC entity, evidence, assessment, and controls data from ServiceNow GRC, OneTrust, and Archer. Interacted directly with customers to introduce new data fields for connector integrations in a startup environment.

Software Engineer, Palo Alto Networks, *Bengaluru, KA* Aug 2023 - July 2024

- Developed automated functional testing workflows using Jenkins for selective push/full commit feature for VM and hardware-based Panorama and Firewall devices(3k,5k,7k), improving code coverage from 23% to 78%.
- Boosted automated test suite to ensure critical certificate values are updated on over 8 OS releases and 12 million Panorama and Firewall devices.

Software Engineer Intern, Palo Alto Networks, *Bengaluru, KA* Jan 2023 - July 2023

- Reduced automation backlog by 30%, ensuring test case integration into regression suites using pytest and gnmic. Expanded REST APIs in six or more PanOS releases to facilitate interaction with the PanOS UI using Selenium for streaming telemetry.

Software Engineer Intern, Nasdaq, *Bengaluru, KA* June 2022 - July 2022

- Engaged in performance-based analysis of enterprise blockchains on over 17 criteria, including VMware Blockchain, Hyperledger Fabric, Hyperledger Besu, and R3 Corda for proprietary use cases, utilizing Hyperledger Caliper.

PROJECTS

Time Sensitive Chemical Identification Tool *Corporate project: Dow, TDM 511*

- Trained a multi-stage XGBoost model predicting chemical peroxide formation using feature engineering (ionic charges, molecular weights) and systematic feature selection.

An Interpretable Hybrid Recommender Based on Graph Convolution to Address Serendipity. *Published at CCCE'23 - Presented at Stockholm, Sweden in March 2023* 🔗.

- Trained a 4-model hybrid model utilising GCNs to augment recommendation serendipity. Formulated a novel distance-based serendipity metric and improved interpretability through KNN feature importance analysis.

RePI: Research Paper Impact Analysis *Published at ISDA'22 - Presented in December 2022* 🔗.

- Created a web application in Python (Streamlit) to analyze the impact of research papers using the Semantic Scholar API using DOI. Formulated a unique impact factor ratio to quantify publication influence.