ANGELA ZHENG

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EDUCATION & SKILLS

Cornell University	**Skills**:
Information Science B.S., May 2019 Business Minor ***Concentrations***: • *Interactive Technologies* • *UX (User Experience) Design*	Machine learning (ML) (feature engineering, supervised & unsupervised learning – regression, classification, clustering), natural language processing (NLP), exploratory data analysis, anomaly detection, model evaluation & interpretability, data visualization, data transformation, project management, relational databases **Programming:** Python (Advanced), R, HTML/CSS/Javascript, D3.js, Java, Git, SQL **Tools:** sci-kit learn, Hugging Face Transformers, Azure ML Studio, LangChain, Tableau **Language:** Chinese – Mandarin (Business Proficiency)

PROFESSIONAL EXPERIENCE

DLA Piper – Responsible AI Testing Team   **New York, NY**
Data Scientist   *September 2023 - Present*
- Deployed a logistic regression model to identify non-compliant messages, reducing legal review time.
- Led textual data preprocessing and feature engineering workstreams to optimize inputs for classification models.
- Led internal LangChain Retrieval Augmented Generation tool development to enhance PDF document review.
- Developed script to detect textual discrepancies between PDF and website content, reducing legal billing costs.
- Designed reporting tool to evaluate disparate impact in synthesized hiring data to identify potential bias.
- Clustered unstructured textual data to identify key topic clusters to accelerate manual categorization of standards.
- Experimented with agentic red-teaming to validate Large Language Model (LLM) outputs to enhance response stability.
- Utilized Generative Adversarial Network model to generate synthetic data, enabling robust tool and workflow testing.
- Conducted in-depth analysis of Medicaid formulary data to identify healthcare plan and formulary trends in 2023.

Upstream Security – Automotive Security Firm   **New York, NY**
Senior Data Analyst   *January 2022 – September 2023*
- Managed and owned analytics workstreams for 3 automotive clients to improve fleet security and drive project success.
- Collaborated with global teams to optimize large-scale data ingestion and reduce client data storage costs by 30%.
- Applied statistics and advanced Python and SQL analytics to reduce model false-positive rates by 90%.
- Deployed ~70 data-driven models to identify vehicle security threats across 5 comprehensive threat vectors.
- Synthesized reports and Plotly dashboards for cross-functional stakeholders to deliver insights and drive decision-making.
- Created custom data parsers in yaml and Kotlin to ingest high-volume vehicle data into security surveillance product.
- Led bi-weekly forum of data team analysts to discuss new technology and implement innovative team solutions.
- Developed exploratory, time series, and ad-hoc python frameworks and automations used by the global data team.

Ernst & Young   **New York, NY**
Senior Forensic Data Analyst   *September 2019 – December 2021*
- Led staff on internal intelligence engagement to highlight engagement performance insights for national leadership.
- Automated procedures for financial services client in Python to reduce fund calculation time from 2 hours to seconds.
- Presented quarterly "Tech Talks" on innovative solutions to New York data analytics team.
- Developed regression and random forest machine learning (ML) models to identify anomalies in accounting ledger data.
- Led internal financial reporting project to deliver interactive dashboard with financial insights to Forensics leadership.

Forensic Data Analyst
- Designed rules-based testing procedures in SQL to identify anomalous records for a financial services client.
- Visualized insights into Tableau dashboards for financial services client to guide record-processing decision-making.
- Performed data exploration, normalization, data profiling and assessment of large, data sources to derive insights.

EXTRACURRICULAR EXPERIENCE

Teacher's Assistant – Advanced Human Computer Interaction	*Spring 2019*
Treasurer/Choreographer – Cornell's Pandora Dance Troupe	*2017 - 2019*
VP of Media - Cornell International Affairs Review Organization	*2017 - 2019*
Game Asset Designer – Discontinuum (Game)	*Fall 2018*
Fun Facts –Artist, Equestrian and Dancer	