

DIVYAM KATARIA

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Education

Arizona State University

Expected May 2027

Bachelor of Science in Computer Science (**GPA: 3.97**)

Tempe, AZ

• Extracurriculars:

- * Chief Technology Officer, Combat Ready Robotics & Gun Devils - Directed technical strategy, mentored teams, and presented projects to university stakeholders.

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

Experience

Summer Intern

Jun 2025 – Aug 2025

Ernst & Young (EY)

Delhi, India

- Directed a comparative analysis of sourcing strategies for 4 leading banks, dissecting GCC vs. outsourcing models to produce a playbook that guided a multi-million dollar market entry strategy.
- Architected and deployed 5 advanced threat detection use cases within ArcSight SIEM, integrating UEBA principles and multiple threat intelligence feeds to target stealthy attack vectors, which enhanced the client's threat prioritization and boosted early-stage detection capabilities by 40%.
- Pioneered a generative AI framework to automate the analysis of over 1,000 pages of cybersecurity policies and annual reports, reducing the time for risk assessment by 30% and delivering a condensed threat landscape brief to senior leadership.

Subject Area Tutor

Jan 2025 – Present

Academic Support Network at Arizona State University

Tempe, AZ

- Facilitated multi-platform tutoring in cybersecurity, software development and Data Analysis for over 400 students, enhancing understanding of languages like Python, Java, and C++.
- Developed and disseminated tailored educational materials on Agile development and Object-Oriented Programming, significantly improving student software development skills.
- Provide instruction in advanced computational methods including Linear Algebra, Statistics, and Calculus, supporting data science and cybersecurity applications.

Projects

EZParlays | *Optimizes predictive sports betting.*

- Developed an agentic AI betting model using LangChain and LLMs that achieved a 65% accuracy on volume bets and an 85% accuracy on targeted bets, optimizing parlay recommendations through data-driven insights.
- Engineered a real-time parlay generation engine to answer complex, context-aware user queries using LangChain and LLMs, enabling the delivery of personalized, data-driven betting insights.

Urban Vitals | *Quantifies urban livability with AI-driven insights.*

- Won Honorable Mention for "Best Use of AI" at HackMIT 2025 by architecting a RAG-based simulator and an autonomous data orchestration (DAG) pipeline unifying 15+ geospatial data streams.
- Achieved a 90% acceleration in the deployment lifecycle by building a reusable, serverless MLOps framework with Python-based IaC and 10+ containerized microservices.

Grubsy | *Summarizes restaurant review insights.*

- Engineered a conversational AI platform capable of handling concurrent users, integrating a Mistral LLM with a scalable FastAPI backend, which reduced customer feedback collection time by 40%.
- Developed an NLP pipeline for sentiment analysis that achieved 90% accuracy, enabling the aggregation of actionable business insights and boosting user satisfaction by 25%.

Pigeon. | *Behavioral AI engine transforming everyday spending into predictive financial control.*

- Built a Plaid-integrated financial analytics engine aggregating 5,000+ transactions and engineered a proprietary "Regret Score" model using 20+ behavioral variables, automating cash flow tracking and achieving 87% impulse-spend detection accuracy in backtesting.
- Engineered "Pigeon," a geofencing-based intervention module triggering real-time spending nudges within 300ms, reducing discretionary purchase frequency by 18% in pilot testing.

Technical Skills

AI/ML: Generative AI, RAG, DAG pipelines, LangChain, TensorFlow, Keras, scikit-learn, NLTK, NLP.Model Interpretability, Hugging Face

Developer Tools: Python, R, Java, Terraform, SQL (Postgres, MySQL), FastAPI, Flask, MLOps, ArcSight SIEM.

Technologies/Frameworks: Docker/Kubernetes, Google Cloud Platform, Git, Linux, Bash, VS Code, Android Studio, Agile Methodology