Kinjal Pandey

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Education

University of Massachusetts at Amherst **Expected Graduation: May 2027**
Master of Science in Computer Science *Amherst, Massachusetts*

Virginia Tech **Jul. 2022 – May 2025**
Bachelor of Science in Computer Science *Blacksburg, Virginia*

Technical Skills

Languages: Python, Java, C++, SQL, JavaScript
AI/ML Frameworks: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas
Techniques: Neural Networks, NLP, Regression, Clustering, Classification, Anomaly Detection, Reinforcement Learning
Tools/Systems: Git, REST APIs, Docker, Linux, Jupyter, SQL Databases
Concepts: Algorithms, Cryptography, Secure Computing, Responsible AI, Data Modeling

Experience

Steve Fisher Consulting **May 2025 – September 2025**
Technical Consultant *Menifee, CA*

- Designed and deployed an AI-assisted legal document retrieval tool, automated invoicing, and optimized server infrastructure with access controls—cutting document search time by 40% and reducing admin workload by 42%.
- Designed an NLP-powered legal search prototype using TF-IDF and sentence embeddings, enabling both keyword and semantic queries and reducing document lookup effort by 25%.

Simple Coaching Inc. **March 2025 – May 2025**
Technical Consultant *Boston, MA*

- Led the digital transformation of client operations by developing an AI-driven engagement pipeline with clustering-based recommendations and a Python/SQL performance analytics dashboard, boosting engagement by 40%, repeat interactions by 28%, and overall revenue by 34%, earning recognition in the LISC Digital Growth Accelerator with IXL Center.

GBCS Group **February 2024 – December 2024**
Backend Developer Intern *Virtual*

- Engineered scalable backend architectures and RESTful APIs using Django REST, Firebase, and Python, optimizing relational databases for large-scale data ingestion and ML analytics pipelines in enterprise fleet management systems.
- Collaborated with senior developers to deliver secure, well-documented code that accelerated release cycles, improved system reliability, and enabled predictive modeling for carbon emissions tracking and asset optimization.

Commonwealth Cyber Initiative Southwest Virginia **October 2023 – January 2024**
Coding and Cryptography Researcher *Blacksburg, VA*

- Collaborated with Dr. Cotardo to design and test algorithms for anomaly detection and secure data encoding, applying cryptographic coding theory to strengthen ML pipelines against data corruption and adversarial attacks.

Projects

Eventualist AI Calendar | *PyTorch, scikit-learn, APIs, HCI frameworks* **January 2024**

- Co-created an AI-powered smart calendar that integrated with Canvas and GrubHub APIs to deliver personalized scheduling and multimodal search, cutting task retrieval time by 40% and improving workflow efficiency for students.
- Awarded the KickStart VT Seed Grant by Apex Systems Center, recognizing it as a high-potential AI venture.

Prosthetic Hand Prototype | *Arduino, Solidworks, sensors, scikit-learn, CAD/3D printing* **July 2023**

- Led a team to build a prosthetic hand that combined sensor-driven motion data with adaptive ML, enabling the device to learn and replicate natural grasping patterns, refined through CAD modeling, resin molding, and 3D printing.

Relevant Coursework

- Machine Learning
- Trustworthy AI
- Cryptography
- Data Science
- Applied Statistics
- Systems Programming
- Data Structures & Algorithms

Leadership / Extracurricular

- **Google Developer Student Club Lead** – Organized AI workshops and hackathons, and managed a core team
- **Microsoft Learn Student Ambassador** – Empowered fellow students through hosting AI/ML workshops, sharing Microsoft Learn content, and building awareness of AI-driven tools and Azure functionalities.
- **IBM Z Student Ambassador** – Advocated AI/ML on mainframe systems and hosted technical learning events.