Neeta Kannu
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EDUCATION

- **University of Colorado, USA: M.S. in Computer Science** — **Dec 2025 | GPA: 3.67**
- **University of Mumbai, India: B.S. in Computer Science** — **May 2015 | GPA: 3.49**

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, C/C++, SQL
- **Scripting Languages:** Bash, PowerShell, HTML, JSON
- **Frameworks & Interactive Environments:** Google Colab, Jupyter Notebook, .NET, ASP.NET, Selenium, Maven, TestNG
- **Data Engineering & Orchestration:** Apache Kafka, Docker, Kubernetes, SQL, Python scripting
- **Cloud & DevOps:** Google Cloud Platform (GCP), Microsoft Azure, Jenkins, CI/CD Automation, Docker, Kubernetes
- **Machine Learning & AI:** Supervised Learning, Deep Learning, Reinforcement Learning, Natural Language Processing (NLP), Representation Learning, Model Deployment, Statistical Modelling, Prompt Engineering, Conversational AI, Multimodal AI

PROFESSIONAL EXPERIENCE

Research Assistant, UCCS CS Department, Colorado Springs, CO, USA — August 2023 – May 2024
- Built **cloud**-native **ML** pipelines with **Python**, **Docker**, **Kubernetes**, and **GCP** for real-time and batch **data processing**, enhancing scalability and speeding insights.
- Optimized **AI/ML** text analytics models, boosting customer insights and pipeline efficiency by 25%, lowering **cloud** and labor costs.
- Developed **interactive visualizations** and fostered cross-team collaboration to accelerate **AI** solution delivery and adoption.

Network Assistant, UCCS OIT, Colorado Springs, CO, USA — June 2024 – Present
- **Automated** network workflows with **Python**, cutting manual effort by 40% and boosting engineering efficiency.
- Managed **Linux** and **Windows** systems to optimize model hosting and monitoring, accelerating deployment cycles.
- Improved infrastructure reliability through scalable setups and enhanced performance monitoring, **reducing downtime** and smooth operations.

Computer Science Tutor, UCCS Maths Centre, Colorado Springs, CO, USA — August 2023 – Present
- Enhanced code quality in **Python**, **Java**, and **C/C++,** increasing project success and reducing **debugging** time.
- Fostered collaboration through **pair programming** and **code reviews**, strengthening team skills and **communication**.
- Mentored students in **algorithms, modular design, and debugging,** enhancing their understanding of the subject**.**

Senior Software Engineer, Accolite Digital, Bangalore, India — August 2021 – January 2023
- Developed **backend** tools and **automated** test **scripts** using **Python** and .**NET** Core, reducing manual testing by 60% and bugs by 85%, improving **product quality** and release speed.
- Streamlined **CI/CD** with **Jenkins** and **Azure DevOps**, cutting deployment time by 30% and enhancing release reliability.
- Optimized **SQL Server** and managed **cross-platform systems**, boosting uptime and performance, while ensuring timely delivery through **Agile** reporting and **stakeholder communication**.

Software Consultant, Capgemini, Bangalore, India — November 2019 – August 2021
- **Automated backend** tasks and **data validation** with **Java**, **Postman**, and **Selenium**, cutting manual effort and boosting **data accuracy** and workflow speed.
- Enhanced **Oracle** and **SQL Server** performance and enforced secure coding via **SonarQube**, improving compliance and reducing bugs.
- Worked in **Agile** teams to speed up delivery and improve release **quality**, increasing **customer satisfaction** and business agility.

Systems Engineer, Tata Consultancy Services, Bangalore, India — June 2015 – November 2019
- **Automated deployments** and system tasks using **Jenkins**, **PowerShell**, and **Bash**, speeding up releases and reducing errors.
- Boosted **software quality** and security with **Selenium**, **Maven**, **TestNG**, and **SonarQube**, cutting manual testing by 30% and minimizing risks.
- Improved performance and scalability through **Oracle/SQL** optimizations and **Docker**, paving the way for **Kubernetes**-based **cloud** adoption.

PROJECTS

Prompt Engineering for LLMs — January 2025 – Present
- Improved **LLM reasoning** and **context handling** for more accurate, decision-supportive outputs in **AI** applications.
- Refined **prompt strategies** to reduce errors and boost efficiency, accelerating **deployment** and increasing user trust.
- **Technologies: Semantic parsing, Retrieval-Augmented Generation (RAG), Representation Learning, Large Language Models (LLMs)**

Accent Identification Model (ANN) — May 2023 – January 2024
- Enhanced **speech recognition accuracy** across diverse accents, improving user experience and accessibility.
- Advanced **multimodal AI** with inclusive, context-aware **models**, broadening market reach and boosting customer satisfaction.
- **Technologies: Python, TensorFlow, Scikit-learn, Artificial Neural Networks (ANN)**

Heart Disease Prediction (Logistic Regression) — January 2024 – May 2024
- Achieved 85% **prediction accuracy** to support **early diagnosis** and **data-driven decisions** in clinical settings.
- Showcased **predictive modeling**'s impact on improving healthcare outcomes and lowering long-term treatment costs.
- **Technologies: Python, Scikit-learn, Logistic Regression, Supervised Learning**

3D Chromosome Reconstruction (Reinforcement Learning) — January 2024 – May 2024
- Boosted **reconstruction accuracy** by 90%, **enhancing precision** in **genomic modeling**.
- Enabled deeper insights into **gene interactions** and chromosomal behavior, advancing biomedical **research** and personalized medicine.
- **Technologies: TensorFlow, Reinforcement Learning, Deep Learning, Python, Genomic Data Analysis**

CERTIFICATIONS

- Python for Data Science and AI – Coursera, Aug 2020
- Overview of Data Visualization – Coursera, Jan 2024