

SHWETA SHEKHAR

New York, NY | (917) 648-3036 | [Email](#) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

New York University | New York, USA | *Master of Computer Science (GPA: 4.0/4.0)* Expected Graduation: May 2026

Coursework: Software Engineering, ML, DL, NLP, Big Data, Foundations of Data Science, InfoSec & Privacy, Algorithms

University of Mumbai | Mumbai, India | *BE in Computer Engineering (GPA: 9.36/10) (Silver Medalist)* Aug 2016 - Aug 2020

SKILLS

Programming Languages: Python, C#, SQL, R, TypeScript

Backend & Engineering: REST API Development, System Design, Software Architecture, MVC, WCF, MongoDB

Machine Learning & AI: Machine Learning, Deep Learning, Model Training & Evaluation, Model Deployment, Prompt Engineering

LLM & Agentic Systems: Large Language Models (LLMs), LLM Agents, Tool-Calling Agents, Agentic Workflows, LangChain

Data & Analytics: Apache Spark, Pandas, NumPy, Elasticsearch, Kibana

Frameworks & Tools: TensorFlow, PyMC, Streamlit, Dash, Git, GitHub, Azure DevOps, .NET

WORK EXPERIENCE

New York University, New York, NY Feb 2025 – Present

(Graduate Assistant) - Excel | Google Sheets | Outlook | Data Management | Scheduling Systems | Documentation

- Supporting advising operations with faculty and the Graduate Advising Manager, managed **department databases, faculty calendars, and student records** while serving as the primary point of contact for **100+ graduate students**.

GEP Worldwide, Clark, NJ

May 2025 – Dec 2025

AI Intern (Summer and Fall Internship)-Python | LangChain | LLM Agents | Prompt Engineering | Telemetry | Azure DevOps

- Architected and deployed **agentic AI workflows** using **LangChain**, orchestrating **LLM agents** and **tool-calling pipelines** to enable production-grade contract analysis across the GEP QUANTUM procurement platform.
- Automated contract insight extraction through **prompt-driven agent pipelines**, reducing manual legal and compliance review effort by **40%** while improving output consistency and turnaround time.
- Built **end-to-end telemetry and monitoring pipelines**, aggregating **agent execution logs, configuring real-time dashboards, and defining alert thresholds** to support production observability and compliance monitoring.
- Implemented **continuous evaluation and feedback loops** for agent outputs, strengthening reliability, traceability, and audit-readiness of AI-driven contract decisions.

GEP Worldwide, India

Aug 2020 – Aug 2024

Senior Software Engineer / Software Engineer / Associate Software Engineer

- Led backend development for **GEP SMART on Azure**, mentoring junior engineers through sprint-based coaching and code reviews, increasing **processing efficiency by 10%** and reducing **operational costs by 10%** based on quarterly usage metrics.
- Created scalable APIs across **REST, MVC, WCF, and Web API frameworks** and **optimized SQL queries** to **deliver 30% faster response times**.
- Established **Git/GitHub workflows** and **standardized Azure CI/CD pipelines**, reducing manual deployment steps, accelerating release productivity by **25%**, and cutting **deployment errors tracked in JIRA**.
- Optimized **search and analytics pipelines** using **Elasticsearch and Kibana** by tuning index mappings and query structures, sharpening system responsiveness and resulting in a **5% efficiency gain** in client-facing operational dashboards.
- Awarded a **Kudos Certificate** for shortening release cycles by **25%** and driving internal stakeholder satisfaction by 20%.

Bhabha Atomic Research Center (BARC), India

May 2019 – June 2019

Machine Learning Intern

- Formulated and tuned ML models for **network anomaly detection** using **Isolation Forest, SVM, and K-Means with Python, R, and Elasticsearch**, yielding a **15% increase in detection accuracy** while **reducing false positives by 20%**.

Study League IT Solutions Pvt Ltd, India

May 2019 – June 2019

Machine Learning Intern

- Designed an **automated WhatsApp broadcasting system** using **Python and Selenium WebDriver**, handling multimedia workflows and contact management, reducing manual effort by **50%**, streamlining messaging outputs by **40%**, and cutting message delays by **50%**.

PROJECTS

Research-Net: Community Detection in Academic Papers | [Link](#)

Jan 2025 – May 2025

- Executed Research-Net, a Spark-based framework applying semantic embeddings and **weighted PageRank** to analyze **5M+ academic papers, achieving a 35% gain in topic clustering accuracy**.

Causal Impact of Weather on Food Delivery | [Link](#)

Sep 2024 – Nov 2024

- Analyzed the impact of weather and traffic on food delivery times using **Bayesian modeling (PyMC), Pandas, and DAGs**, identifying time-delay drivers that explained **~20% variance** in delivery latency and informed logistics strategies.

Advanced Information Visualization for Stock Market Analysis | [Link](#)

Sep 2024 – Nov 2024

- Launched a stock market visualization tool using **Streamlit, Dash, D3.js, and Matplotlib** to analyze NYSE performance, providing sentiment-based insights that drove a **30% improvement** in decision quality.