SHWETA SHEKHAR

New York, NY | (917) 648-3036 | ss19623@nyu.edu | LinkedIn | GitHub | Portfolio

EDUCATION

New York University | New York, NY   Expected Graduation: May 2026
Master of Computer Science (GPA: 4.0/4.0)
Coursework: Information Visualization, Software Engineering, Big Data , Foundation of Data Science, Machine Learning, Design & Analysis of Algorithm-1, Natural language processing, Deep learning, Information & Security Privacy

University of Mumbai | Mumbai, India   Graduated: Oct 2020
Bachelor of Engineering in Computer Engineering (GPA: 9.36/10 - Silver Medalist)

SKILLS

Programming Languages: Python, R, Java, SQL
Technical Tools: Git, GitHub, Azure DevOps, Selenium WebDriver, REST APIs, MVC, WCF, Web API
Database & Data Engineering: Spark, Elasticsearch, Kibana, Pandas, NumPy
Frameworks & Libraries: TensorFlow, PyMC, LangChain, Streamlit, Dash, D3.js, Matplotlib

WORK EXPERIENCE

New York University, New York, NY   Feb 2025 – Present
(Graduate Assistant)
- Assist faculty with academic tasks including proofreading research, presentations, managing course content, and grading
- Partner with the Graduate Advising Manager on student projects, such as peer mentorship programs and academic workshops

GEP Worldwide, Clark, NJ   May 2025 – Aug 2025
AI Intern (Summer Internship)
- Integrated LLM solutions through LangChain and agentic AI workflows by designing modular pipelines and test cases aimed at improving contract lifecycle management functionality in the GEP SMART procurement platform
- Built monitoring pipelines for telemetry data by collecting performance logs, setting up dashboards, and configuring alert triggers to establish more reliable feedback loops for compliance and system stability
- Automated contract insights retrieval using parsing logic and NLP models to reduce manual review time by 40%

GEP Worldwide, India   Aug 2020 – Aug 2024
Senior Software Engineer / Software Engineer / Associate Software Engineer
- Mentored junior engineers in building solutions for GEP SMART on Azure via sprint-based coaching sessions and code reviews that improved processing efficiency by 10% and cut operational costs by 10% based on quarterly system usage
- Integrated APIs across REST, MVC, WCF, and Web API frameworks, and optimized SQL queries for 30% faster responses
- Spearheaded the implementation of Git/GitHub workflows and automated Azure CI/CD pipelines that led to a reduction in manual deployment steps, increased release productivity by 25%, and cut deployment errors tracked in JIRA
- Enhanced search and analytics with Elasticsearch and Kibana by tuning index mappings and query structures, thus delivering gains in system responsiveness and a 5% efficiency increase in operational dashboards used by client teams
- Received a Kudos Certificate for enhancements such as shortening release cycles by 25% and improving satisfaction by 20%

Bhabha Atomic Research Center (BARC), India   May 2019 – June 2019
Machine Learning Intern
- Designed machine learning models for network anomaly detection using Python and R with Elasticsearch for data storage, followed by validating results against historical log files to increase detection accuracy by 15%
- Optimized algorithms by tuning hyperparameters and experimenting with Isolation Forest, Support Vector Machines, and K-Means Clustering, bringing about a 20% reduction in false positives as measured against benchmark datasets

Study League IT Solutions Pvt Ltd, India   May 2019 – June 2019
Machine Learning Intern
- Developed an automated WhatsApp broadcasting system using Selenium scripts that handled multimedia messages/attachments
- Utilized Python and Selenium WebDriver to automate broadcasting workflows that cut manual sending time by 50%
- Designed Python scripts for contact management that increased messaging efficiency by 40% and reduced delays by 50%

PROJECTS

Research-Net: Community Detection in Academic Papers | Link   Jan 2025 – May 2025
- Developed Research-Net, a Spark-based framework that applied semantic embeddings and weighted PageRank to analyze 5M+ academic papers, notably achieving a 35% improvement in topic clustering accuracy

Causal Impact of Weather on Food Delivery | Link   Sep 2024 – Nov 2024
- Analyzed the effect of weather and traffic conditions on food delivery times using Bayesian modeling with PyMC, data manipulation in Pandas, and DAGs to identify time-delay patterns that guide logistics strategies and improved efficiency

Advanced Information Visualization for Stock Market Analysis | Link   Sep 2024 – Nov 2024
- Built a stock market visualization tool using Streamlit, Dash, D3.js, and Matplotlib to analyze NYSE performance, leading to providing sentiment-based insights that improved decision-making by 30%