

SHRIYANSH TRIPATHI

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EDUCATION

CUNY Queens College - Bachelor of Arts, Computer Science
CUNY School of Professional Studies - Master of Science, Data Science
Honors: Dean's List (Fall 2021 – Fall 2023) & Cum Laude

Aug 2021 – May 2023 | GPA: 3.6

Jan 2024 – 2025 | GPA: 3.9

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Matplotlib, Seaborn), R, Java, C++, Golang, TypeScript, JavaScript, SQL, Bash

AI/Machine Learning/Data Science: Scikit-learn, TensorFlow, PyTorch, NLP, Keras, Hugging Face, LLMs, Prompt Engineering

Big Data & Analytics: Spark, Hive, Teradata, PostgreSQL, Tableau, Grafana, GitHub, Jupyter, Streamlit, Flask, LangChain

Infrastructure: AWS (EC2, Redshift, ECS), Jenkins, Docker, Terraform, Git, CI/CD, SLURM, SSH, Custom Observability Pipelines

EXPERIENCE

Accenture — New York, NY

Software/AI Engineer

Sept 2023 - Present

- Co-created **10+ AI pilots** using **LLMs** and **foundation models** (e.g., **GPT-4**) for Fortune 100 clients including **Meta, Verizon, and Microsoft**, delivering 4–6 week Proof of Concepts (**POCs**) that solved business problems in customer service, financial analytics, and operations, resulting in a **30%** increase in client engagement.
- Engineered **intelligent assistants** and **NLP pipelines** using **Python, LangChain**, and **Hugging Face Transformers** for contract analysis, document summarization, sentiment detection, and intent classification, reducing manual review time by **60%**.
- Designed **12+ modular AI pipelines** with **Streamlit** and **Flask**, integrated into enterprise dashboards for real-time analytics; improved time-to-insight by **40%**, enabling faster business decisions.
- Deployed **15+ production-grade AI models** on **AWS ECS** using **Docker** and **Jenkins**, implementing **CI/CD** pipelines that cut model release cycles by **25%** and achieved **99.5%** deployment reliability.
- Built custom observability pipelines and **Grafana**-based dashboards to track model accuracy, latency, and failure rates, leading to a **20%** improvement in model stability and earlier drift detection.
- Performed hyperparameter tuning and few-shot learning optimizations, boosting model accuracy by **18%** and reducing **LLM** hallucinations by **22%**, verified through QA audits.
- Authored **20+ pages** of technical documentation including architecture diagrams, benchmark reports, implementation runbooks, and user manuals, speeding up internal knowledge transfer.
- Collaborated with **5+ cross-functional teams** (PMs, data scientists, DevOps, SMEs) to define KPIs, align tech delivery with business value, and ensure a **90%+ client pilot** success rate.
- Presented demo pilots to **senior leadership** in **15+ stakeholder meetings**, converting **8 pilots** into funded projects, generating **\$1M+** in new business pipeline value.

Accenture — New York, NY

Software Engineer Intern

June 2022 - August 2022

- Led the migration of large-scale Pfizer server infrastructure from on-premises data centers to **AWS Cloud Brokerage**, leveraging Accenture's MyNav for Wave Management to ensure a smooth, low-downtime transition aligned with enterprise SLAs. Developed and executed Java automation scripts to streamline account creation, user provisioning, and profile management, enhancing operational efficiency and reducing manual intervention by **35%**.
- Integrated and configured **SQL Server** databases, ensuring data integrity and continuity across environments during migration; collaborated with application owners and DevOps teams to align infrastructure changes with business requirements.

Accenture — New York, NY

Cybersecurity Intern

June 2021 - August 2021

- Refactored **AWS CloudFormation** templates and automated **CI/CD pipelines** using **Git, Jenkins**, and **Python (Boto3)** to provision **EC2** instances, scale storage, and harden environments, improving infrastructure consistency.
- Collaborated with a 6-member team to build an **AMI** cleanup tool, reducing manual cleanup time by 10% and enhancing system performance by 15% through bug fixes and optimizations.

Reach Into Cultural Heights (RICH)

Front-End Engineer Intern

May 2020 - June 2020

- Modernized frontend and backend using **HTML, CSS, JavaScript, Bootstrap**, and **PHP**, enhancing responsiveness and improving usability of core features like the contact page and game modules.
- Designed and launched "**Snacking for Smartness**", an educational web project accessed by **1,500+ users**, collaborating with a cross-functional team of 3 on content, development, and deployment.

PROJECTS

GenAI Code Explainer & Debugger

Tech Stack: [Python, OpenAI GPT-4 API, Flask, GitHub, LangChain, Docker]

- Built a Generative AI-powered Code Explainer & Debugger using **GPT-4**, **Streamlit**, and **GitHub** integration to provide human-readable explanations, optimizations, and bug diagnostics for Python code, improving code literacy and debugging speed by 50%.

Arsenal – The A.I. Assistant

Tech Stack: [Python, SQL, Tkinter]

- Designed and developed a Python-based AI desktop assistant using **SQL** and **Tkinter** with 90%+ accurate Face Unlock and voice command features, supporting 100+ queries and seamless integration with WhatsApp, Twitter, and Instagram.