SHIVAM MISHRA

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EDUCATION

Stony Brook University - SUNY   **August 2024 - May 2026**
Master's, Computer Science   *GPA: 3.83*

University of Mumbai   **August 2017 - May 2021**
Bachelor's, Computer Engineering   *GPA: 9.06*

WORK EXPERIENCE

Stony Brook University   **Stony Brook University, NY, USA**
Teaching Assistant   *January 2025 - May 2025*
- Mentored students in CSE 101: Computer Science Principles by supervising lab sessions, clarifying course materials, and guiding programming assignments. Proctored exams and upheld academic integrity.

Barclays   **Pune, MH, India**
Automation Developer   *August 2021 - August 2024*
- Designed end-to-end Appian application integrated with Microsoft Graph API to automate task creation and allocation from Outlook emails, reducing time spent on task management by 85% and improving response times by 45%.
- Engineered a scalable MariaDB database schema and implemented an intelligent task allocation mechanism, utilizing Appian workflows and real-time dashboards for data visualization, enhancing task tracking and accountability for over 400 tasks monthly.
- Collaborated cross-functionally with 9 business groups to revamp the Service Outsourcing Request Approval Process, applying Agile and SDLC principles, cutting turnaround time by 40% and manual effort by 75% through an intuitive Appian application.
- Took ownership and developed a secure, production-grade system with 2FA and OAuth 2.0, enabling the operations department to manage payment workflows with high reliability.
- Engineered an RPA solution using Blue Prism to automate the reporting process for the Consumer, Wholesale, and Markets divisions at Barclays, reducing costs by 14 FTEs through enhanced data storage management, process scheduling, and streamlined workflow automation.
- Strengthened Level 3 support for large enterprise codebases, conducting code reviews, root-cause analysis, and safe production updates to maintain uptime and system reliability.

PROJECTS

VideoXplore - AI-Powered Video Analysis Platform | Agentic AI, LLM, Google Gemini - *Link to project*
- Architected an end-to-end Agentic AI platform combining multimodal video analysis with real-time web research, reducing review time by 77%.
- Deployed with Docker containerization on Render through a zero-downtime CI/CD pipeline using GitHub Actions, ensuring seamless and reliable production releases.

RAG-Bot - RAG-Powered Document Q&A | LangChain, FAISS, HuggingFace - *Link to project*
- Developed a chatbot using Streamlit, LangChain, FAISS, HuggingFace embeddings, and Google Gemini, enabling users to query 100+ page PDFs with fast, automated responses.
- Optimized vector retrieval pipelines to reach 93% accuracy, applying BGE embeddings and FAISS indexing at scale.

GenUI - Wireframe to Code Converter | Generative AI, React.js, Flask, Google Gemini - *Link to project*
- Created a full-stack application with RESTful Flask APIs that converts hand-drawn wireframes into functional HTML & CSS code, cutting UI prototyping time by 70%.
- Implemented React frontend and CORS-enabled Flask backend, integrating Google Gemini. Delivered drag-and-drop uploads, real-time preview, and one-click code export across 5 image formats with 95% or higher accuracy in responsive layouts.

Mobility Based Resilience Analysis | Geospatial Analytics, Time Series, Data Science - *Link to project*
- Designed a large-scale ETL pipeline processing 5.8M mobility records, applying statistical models to quantify community mobility patterns and disaster recovery.
- Delivered an interactive Streamlit dashboard for temporal analysis, demonstrating resilience indices and comparative visualizations

CERTIFICATIONS

AWS Certified Cloud Practitioner | Appian Certified Associate Developer

SKILLS

Programming Languages: Python, Java, JavaScript, Go
Database Management: PostgreSQL, MySQL, MongoDB
Frameworks & Libraries: Flask, PyTorch, Node.js, React.js, NumPy, Pandas, Matplotlib
Tools & Technologies: AWS, GCP, Docker, Kubernetes, Git, Figma, Appian