

Swastik Mishra

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EDUCATION

New York University

Master of Science in Financial Engineering, CGPA - 3.89/4.00

May 2027

New York City, United States

Coursework: Quantitative Methods, Derivative Securities, Valuation, Fixed Income Strategies, Mergers & Acquisitions

Bennett University

Bachelor of Technology in Computer Science and Engineering, CGPA - 3.72/4

June 2025

Greater Noida, India

Coursework: Machine Learning, Time Series Analysis, Data Structures & Algorithms, High Performance Computing

SKILLS & RECOGNITION

Programming Languages: Python, R, C++, SQL; experienced with modern ML frameworks (PyTorch, TensorFlow)

Competitions: Cornell Trading Competition 2025 (Team-NYU), Qualcomm Edge AI Hackathon (Top 30), Publicis Hackathon (Top 10)

Awards: Publicis Media Spotlight Award (2023), 2nd Starcom Global Movement Awards (2024), Chanakya Fellowships (₹100k grant)

Certifications: Bloomberg Market Concepts, Simulation & Modeling of Natural Processes (Université de Genève)

WORK EXPERIENCE

Publicis Media South Asia

Aug. 2023 – Dec. 2024

Gurugram, India

Data Science Intern, Solutions Team

- Led APAC strategy for a global FMCG; boosting portfolio marketing mROI by 1.5% through simulation-driven budget optimization
- Delivered MMM solutions for Fortune 500 brands, developing tools & dashboard products generating \$240k+ revenue annually
- Built a Generative AI-based culture insights tool, deployed across 15+ markets for 5+ brands, driving \$300k+ in annual revenue
- Developed geospatial zipcode-level targeting strategy across 8 metropolitan areas, contributing to a \$40M media mandate win
- Led a multi-market structural equation modeling study for a SE-Asia brand, analyzed 50+ touchpoints measuring brand equity drivers
- Developed Python-R integration for Robyn in Streamlit with AWS, collaborating with Meta; [adopted globally by Publicis teams](#)
- Led questionnaire design, served as Publicis' SPOC, created end-to-end analysis & presentations for a [large Indian Gen Z study](#)

IIT Indore Drishti CPS Foundation

Mar. 2023 – Dec. 2023

Indore, India

Research Intern under Dr. Tanveer Ahmed

- Developed agent-driven case retrieval & cross-document search, reducing dimensionality by 25% while preserving search quality
- Designed legal reasoning engine using precedent search across 5+ Acts and 250+ cases in a tree search, automating defense arguments
- Presented AI tools to government and industry leaders at showcases [SETU 2023](#) and [2024](#), securing continued development support

Indian Institute of Science, Education and Research

May 2023 – July 2023

Mohali, India

Summer Research Intern, Weather and Climate Modeling Lab

- Improved LSTM model R² for Himalayan rainfall prediction by 30 ppts by integrating sea surface temperatures & other indicators
- Engineered data pipelines automating sliding-window processing, feature scaling, and metric logging, reducing model iteration time
- Automated daily Ministry of Earth Sciences climate data ingestion via Python scrapers, eliminating 15+ manual hours/month

PROJECTS

SnapIndex

Sep. 2025

Project Team Lead

New York City, United States

- Built Windows-native local semantic search (35+ file-types) delivering sub-second directory searches optimized for Snapdragon NPUs
- Integrated 3 models: ViT (image tagging) & BGE (text embeddings) on ONNX runtimes, & Qwen LLM (contextual file renaming)
- Led team to Qualcomm Edge AI Hackathon finals (Top 30); built right-click enabled compiled executable via registry configuration

Digital Adhivakta

Sep. 2023 – June 2024

Indore, India

Project Team Lead

- Deployed semantic Delhi High Court Judgement search on AWS using OpenSearch & MPNetV2 enabling sub-100ms latency retrieval
- Automated judgment mining & vectorization via efficient Python data scraper pipelines, processing over 100k+ documents end-to-end
- Led team to win Chanakya Fellowship, securing ₹100,000 development grant and incubation support through AWS Activate

Generative Adversarial Networks in siRNA Discovery

Mar. 2023 – June 2023

Mohali, India

Research Assistant under Dr. Anuj Kumar Bharti

- Developed DCGAN and WGAN models with Wasserstein loss to generate novel siRNA sequences targeting glioblastoma cancer cells