

UTKARSH SARAOGI

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EDUCATION

Northeastern University, Boston, MA

Exp. May 2027

Master of Science in Computer Science

- **Coursework:** System Design, Database Management Systems, Algorithms, Machine Learning, NLP

Manipal Institute of Technology, Manipal, KA

May 2022

BTech in Electronics and Communication

- **Coursework:** Data Structures & Algorithms, Data Science, Python Programming, Electronic System Design

TECHNICAL SKILLS

Proramming: Python, SQL, Java

Data Science & ML: A/B Testing, Statistical Analysis, Matplotlib, Seaborn, Scikit-learn, Pandas, NumPy

Data Engineering: MySQL, MongoDB

Cloud & DevOps: Git, Docker, Jenkins, AWS (SageMaker, S3, Lambda), JIRA, Confluence, Falcon LogScale

Testing: PyTest, Cypress, REST/GraphQL API Testing

PROFESSIONAL WORK EXPERIENCE

HEWLETT PACKARD ENTERPRISE

Aug. 2022 – Aug. 2025

Cloud Developer I

Bangalore, India

- **ML-Powered Triage System:** Assisted in training an AI assistant to automate failure classification by sourcing and labeling **4,000+ failure scenarios** (test, feature, server), achieving **65% improvement in classification accuracy** and reducing manual triage time.
- **Data Pipeline Automation:** Developed Python libraries to process and validate large-scale switch network data, **improving data integrity and reliability** for platform end-users.
- **Regression Optimization:** Analyzed over **1,200 production test cases** and automated core features within the Switch Data Monitoring platform, reducing regression cycle times by **55%**.
- **CI/CD & Deployment:** Containerized test libraries and executed high-priority integration tests prior to releases, **ensuring production stability**.

HEWLETT PACKARD ENTERPRISE

Jan. 2022 – Jul. 2022

Graduate Intern

Bangalore, India

- **Test Automation & QA:** Executed daily automation suites, identified software defects, and contributed fixes to maintain test framework health for the Switch Data Monitoring platform.
- **Code Quality Automation:** Created automated PyLint validation scripts integrated into the CI pipeline, eliminating production rejections due to lint errors and reducing pre-release debugging time.

PERSONAL PROJECTS

Credit Risk Strategy Engine: Revenue Recovery | *A/B Testing, Scikit-Learn* | [Link](#)

- **Credit Strategy & Revenue Recovery:** Designed a fraud-resistant risk engine using **XGBoost and Counterfactual A/B Testing**, replacing rigid Hard policies with a verifiable compensating factors.
- **Recovered \$7.8M** in potential revenue on the test set and **reduced false rejections by 35%** on verifiable bureau data.
- Built an explainable module to automate Adverse Action reporting, translating feature interactions into specific reason codes. **Reduced type II errors by 20%**.

Stock Portfolio Management System | *Python, Flask, MySQL, REST APIs* | [Link](#)

- Architected full-stack application with normalized **MySQL database and REST API**; designed React frontend achieving responsive UI with real-time portfolio analytics and sector allocation visualizations.
- **Implemented ACID-compliant stock trading** using MySQL stored procedures; integrated Finnhub API with Python threading for automated price updates; built comprehensive CRUD operations with bcrypt security and live data refresh mechanisms.

ACHIEVEMENTS & ACTIVITIES

- Mentored 3 interns at HPE, creating comprehensive documentation that reduced onboarding time by 1-2 months.
- Vice-Captain of college football team and member of the Official Student Committee, managed multiple college meets efficiently.