MAYURI UPADHYAYA

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EDUCATION

New York University   **New York, NY**
M.S. in Computer Engineering | **CGPA:** 3.78 / 4.0   *Sep 2022 – May 2024*
Relevant Coursework: Machine Learning, Deep Learning, Computational Statistics, Internet Architecture & Protocols
Involvement: AnitaB.org GHC 2023 scholar (in-person), Member of Girls Who Code, Rewriting the Code, and Tech@NYU clubs.

R. V. College of Engineering   **Bangalore, IN**
B.E. in Electronics and Telecommunication Engineering | **CGPA:** 3.44 / 4.0   *Aug 2016 – July 2020*
Relevant Coursework: Data Structures and Algorithms, Digital Signal & Image Processing, Computer Networks, Web Development
Involvement: 2-times state-level winner and Bharatanatyam dancer at team Footprints.

WORK EXPERIENCE

LOCOMeX Inc.   **New York, NY**
Applied Data Science Intern   *Jun 2023 – Aug 2023*
- Led an end-to-end development of an ML-driven, fully automated Win-Rate optimizer predicting supplier success in ESG projects, resulting in a 10-fold increase in Locomex Supplier Plan subscriptions.
- Engineered seamless remote accessibility to a scalable microservice by deploying an NLP model as a RESTful API via AWS Lambda, effectively enabling integrations with various use cases.
- Achieved 95% accuracy in text summarization, semantic search, and data retrieval from 10,000+ text-rich document pages by leveraging NLP techniques and vector search methodologies.
- Doubled data extraction speed by developing custom web crawlers for dynamic websites, surpassing licensed data extraction tools.
- **Proficient in** Environmental Social Governance, Python, NLP, ETL, RESTful API, AWS lambda & S3, LangChain, Kor, Pinecone, Postman, Faiss, Scikit-Learn, Pandas, NumPy, Matplotlib, RegEx, Selenium, BeautifulSoup, Microsoft Excel, Bash, Git.

NYU Tandon School of Engineering   **Brooklyn, NY**
Graduate Research Assistant   *Feb 2023 - May 2023*
- Pioneered an Open-Source initiative via NSF grant #2231984 by leveraging state-of-the-art midscale facilities/ testbeds. Developed lab experiments on computer networks and security, empowering ~300 graduate students every semester.
- Earned 2nd place in FABRIC for education presentation at the NSF KNIT-6 workshop, Texas Advanced Computing Center.
- Nominated to lead a tutorial on MERIs for Education at NSF Midscale Experimental Research Infrastructure Forum 2023, Boston.
- **Proficient in** Computer networks, TCP/IP protocols, Python, Linux, Bash scripting, HTML5, Git.

Dover Corporation   **Bangalore, IN**
Software Engineer   *Jan 2020 – July 2022*
- Achieved an annual cost avoidance of ~$1M by implementing and supporting in-house Salesforce Sales and Service CRM solutions across 10 projects.
- Engineered and executed a range of Apex triggers, classes, and SOQL-based DML operations that efficiently routed and notified business users of vital service-related updates.
- Orchestrated the seamless deployment of end-to-end Salesforce automation across Production, UAT, and Dev instances.
- Catalyzed software development and CI/CD optimization by skillfully implementing Bitbucket, Jira, and Agile/Scrum methodologies, leading to streamlined workflows and enhanced collaboration.
- Drove quality assurance through thorough unit, integration, and functional testing, resulting in notable improvements within the development environment.
- **Proficient in** Apex programming, SFDC LWC, SQL, JavaScript, CSS, HTML5, Tableau, Excel, Reports and Dashboards.

PROJECTS

Legal LLaMa | NYC Gen AI hackathon   *April 2023*
- Secured $3000 cohere credits for a GPT-4 and Pinecone-powered chatbot, delivering tailored responses on US immigration, travel, and citizenship inquiries. Presented verified USCIS website sources and suggested local immigration attorneys for legal guidance.

EDIA Health | HackNYU 2023   *Feb 2023*
- Won Major League Hacking Best use of Matlab for a prototype that helps people with sensorineural hearing loss hear better.

SKILLS

Programming Languages/ Tools: Python, C++, C, SQL, MATLAB, Bash, Git, Excel, AWS, GPT, Pinecone, Postman, Tableau.
Libraries and Frameworks: PyTorch, LangChain, Faiss, Kor, Scikit-Learn, Pandas, NumPy, Selenium, BeautifulSoup, Matplotlib.