Visheshank Mishra

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EDUCATION

Northeastern University, Boston, USA

September 2021 – December 2023

Master of Science | Major: Artificial Intelligence

Related Courses: Algorithms, Fundamentals of Al, NLP, ML, Programming Design Paradigm, Deep Learning, HCI, Data Mining Techniques

Jaypee University of Engineering & Technology, Guna, India

August 2014 - May 2018

Bachelor of Technology | Major: Computer Science & Engineering

WORK EXPERIENCE

Khoury College of Computer Sciences | Graduate TA (Machine learning), Boston, MA

September 2022 - December 2023

- Created Assignments for 100+ students, trained and assisted them in the use of ML libraries, software, and ML algorithms.
- Developed a grading matrix that reduced scores reporting time of instructors by 35%.

Sway Al | Software Engineer co-op, Burlington, MA

January 2023 – August 2023

- Designed and deployed multiple microservices, which allows one-click stop functionality for **ML training** and inference operations within the pipeline. This led to a **35% reduction in Proof-of-Concept time** for our **Fortune 500 client** and **40%** cost saving for our organization.
- Utilized advanced NLP tools and services, including LLMs, to develop APIs that deliver static assistance on the product website. This simplified the product learning curve and amplified user engagement by 25%.
- Optimized the ML solutioning process by modifying multiple specific logical nodes into generic one, reducing user pipeline design time by 20% and improving overall efficiency for users.
- Developed and executed a comprehensive test plan, including writing multiple ROBOT tests, resulting in a 30% increase in service quality
 and a 35% decrease in manual testing efforts.
- Executed the development of a high efficiency microservice for downloading visual data in CSV format.

Shiryam Technologies | Software Development Engineer, New Delhi, India

July 2020 - July 2021

- Lead backend development for building a **generic framework** for the **content management system**; this system can include different types of media and can be quickly modified and deployed as per the customer's needs.
- Developed multiple server-less APIs using Python, AWS lambda, AWS S3 bucket, and other Amazon web services.
- Worked intensely with the **front-end development** team to quickly adapt to the changes in requirements, resolve any present and forthcoming issues in the system, and reasonably future-proof it this increased team efficiency by **45**%.

MapmyIndia | Software Engineer, New Delhi, India

June 2018 - July 2020

- Led Development for in-car Virtual Assistant and its alpha version was showcased at Auto-Expo 2020.
- Co-led the research & development of **international address search APIs**; this helped the client ease the expansion of their business by **25%** in multiple countries.
- Developed, deployed, and maintained multiple search-related APIs (Geo-coding, Address Standardization, and Suggested Searches) and an
 intent recognizer module, which empowers those search APIs.
- Created data visualizations for Vehicle Analytics using Plotly, Seaborn, and other libraries; this helped clients understand critical information from raw data.
- Designed and developed solutions for multiple location-intelligence projects using ML, saving clients more than 20% of operation costs.
- Developed critical solutions for internal heterogeneous database migrations, which saved 35% of resources (Human & capital).
- Migrated whole Legacy Geo-coding code from Java to Python to leverage ML Algorithms.

ACADEMIC & PERSONAL PROJECTS

- NLP Vectorizer Analysis: Researched and experimented to establish a relationship between words and prime numbers using existing vectorization techniques on approximately 1 million prime numbers.
- **Dungeon Game:** Developed a Graphically Interactive Dungeon Game in Java following MVC architecture to utilize and understand industry standard practices for large code base software development and maintenance.
- Telegram Bot: Built a bot to encrypt, store, decrypt, and dispense site login credentials with 2048-bit RSA encryption.
- Hand Gesture Recognition: Created a working prototype to recognize the hand gestures from a live video input stream and their
 corresponding numeric values. This was based on the idea to create an application that can control a machine using hand gestures.
- Music Genre Classification: Pioneered a deep learning model that can predict a given song's music genre.

TECHNICAL SKILLS

- Programming Languages: Python, Java, SQL, C, C++, R
- Python Packages: Pandas, Matplotlib, NumPy, SciPy, scikit-learn, NLTK, spaCy, Psycopg2, Selenium
- Software & Tools: MATLAB, Tableau, JMeter, Postman, Weka, MS Office, Libre Office, LaTeX, MS-Excel
- Databases: Elasticsearch, DynamoDB, MongoDB, PostgreSQL, Redis
- Work Domain: API, Analytics, Visualization, Machine Learning, Natural Language Processing, Deep Learning
- Web Development: Flask, Django, Gunicorn, uWSGI, Bjoern, Bottle, CherryPy, Falcon, ROBOT, Zappa, React
- Development: Apache-Kafka, Plotly, PyTorch, TensorFlow, BERT, Spark, Hadoop, Jenkins
- AWS: SageMaker, S3, EC2, Lambda, Step Functions, EMR, JumpStart
- Others: PyCharm, Jupyter, IDLE, Spyder, Anaconda, IntelliJ, Windows, Linux Shell Script, GIT, JIRA, Confluence, Heroku