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 AI, 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 Teaching Assistant, Boston, MA*   September 2022 – December 2023
- Developed assignments for **100+ students**, **trained** and **assisted** them in the use of ML libraries, tools, and algorithms.
- Created **Python-based automation tools** to streamline the grading process and designed **Excel dashboards** to track grading metrics, reducing instructor grading time by **30%.**

Sway AI| *Software Engineer Intern*, Burlington, MA   January 2023 – August 2023
- Designed and deployed multiple **Python-based microservices**, enabling one-click stop functionality for **ML training** and inference operations, which reduced **Proof-of-Concept time** by **35%** and achieved **40%** cost savings for a **Fortune 500 client**.
- Utilized advanced **NLP tools** and **LLM-based APIs** to simplify product learning, integrating **Excel** reporting dashboards for tracking engagement metrics, which 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.
- Implemented a high-efficiency **microservice** for downloading visual data in CSV format, employing **SQL** queries and **Excel Reporting** for seamless data extraction and presentation.

Shiryam Technologies| *Software Development Engineer, New Delhi, India*   July 2020 – July 2021
- **Led backend development** of a flexible, **SQL-driven** content management framework using **Python**, enhancing data retrieval speed by **20%** and enabling custom media management.
- Built **serverless APIs** with **Python, AWS lambda, AWS S3 bucket**, **and AWS services** for large-scale data processing and automated **Excel reporting** for key performance indicators, optimizing database interactions.
- Enhanced team efficiency by **45%** through **Python**-based data automation tasks and **Excel dashboards** that provided easy-to-understand metrics.

MapmyIndia| *Software Engineer, New Delhi, India*   May 2018 – July 2020
- Led Development for in-car **Virtual Assistant** and its alpha version was showcased at **Auto-Expo 2020**.
- Co-led R&D for **international address search APIs**; facilitating a **25%** business expansion for the client across multiple countries.
- Built and maintained several **SQL-powered search APIs** (Geo-coding, Address Standardization, Suggested Searches) with an **intent recognizer**, improving search functionality.
- Created **data visualizations** for **vehicle analytics** using **Python** libraries like **Plotly, Seaborn** and **Excel**, to deliver actionable insights from raw data to clients.
- Built ML-based **location-intelligence solutions** and **Excel-based reports**, reducing client operational costs by over **20%.**
- Executed solutions for internal **heterogeneous database migrations**, saving **35%** in resources, and migrated **legacy geo-coding** code from **Java** to **Python** to leverage **ML Algorithms** for improved efficiency.

ACADEMIC & PERSONAL PROJECTS

- **NLP Vectorizer Analysis:** Conducted research to explore relationships between words and prime numbers using Python's vectorization techniques on a dataset of approximately 1 million prime numbers.
- **Dungeon Game:** Developed an interactive dungeon game in Java, following MVC architecture to implement scalable software practices.
- **Telegram Bot:** Built a Python-based bot to securely encrypt, store, and manage login credentials with 2048-bit RSA encryption, incorporating SQL for efficient, structured data retrieval.
- **Hand Gesture Recognition:** Created a Python prototype to recognize hand gestures from a live video stream, interpreting numeric values for potential machine control applications.
- **Music Genre Classification:** Developed a Python deep learning model to predict the genre of a song using advanced data processing techniques, exploring practical applications in music recommendation.

TECHNICAL SKILLS

- **Programming & Scripting:** Python, Java, SQL, R; **Libraries:** Pandas, Matplotlib, NumPy, SciPy, scikit-learn, NLTK, spaCy, Psycopg2, Selenium
- **Databases & Data Tools:** PostgreSQL, Elasticsearch, DynamoDB, MongoDB, Redis, MATLAB, Tableau, MS-Excel, Weka
- **Web & API Development:** Flask, Django, React, Gunicorn, uWSGI, Bjoern, Bottle, CherryPy, Falcon, Zappa, ROBOT
- **ML, Big Data & Visualization:** TensorFlow, PyTorch, BERT, Spark, Hadoop, Apache-Kafka, Plotly
- **Cloud & DevOps:** AWS (SageMaker, S3, EC2, Lambda, Step Functions, EMR, JumpStart), Jenkins, JMeter, Postman
- **Software & Tools**: MS Office, Libre Office, PyCharm, Jupyter, Anaconda, IntelliJ, GIT, JIRA, Confluence, Heroku, Windows, Linux Shell Scripting