Utkarsh Mathur

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➢ Data Science and Software Engineering professional with 2+ YOE in Front-end and Backend development, creating Machine Learning and Deep Learning models, performing Data Analytics, developing ETL & ELT pipelines, and creating Data Visualizations.

➢ Proficient in Programming (Python, C++, JavaScript), Web Development (HTML, CSS, JavaScript), Databases (SQL, MongoDB), CI/CD pipelines, Software Testing, ETL & ELT pipelines, Machine Learning, and Deep Learning.

EDUCATION

University at Buffalo, State University of New York | New York, USA   **January 2023 – June 2024**
Master of Science in Data Science (Engineering Science)

Indian Institute of Technology Roorkee (IIT Roorkee) | Uttarakhand, India   **July 2018 – July 2022**
Bachelor of Technology in Polymer Science (Chemical Engineering)

PROFESSIONAL EXPERIENCE

Data Scientist | Quinbay | Bengaluru, India   **May 2022 – October 2022**

- Trained (using **Python and PyTorch**) and deployed (using **Python, JavaScript, React, and Node**) **Deep Learning model** (quantized Object Detection model) to automate order returning process for BliBli e-commerce website making the **process 40% faster**.
- Develop counterfeit product identification feature for BliBli e-commerce website by leveraging Data Analytics, Natural Language Processing, Deep Learning Techniques, and Full-Stack Development using **Python, SQL, PyTorch, JavaScript, React, and Node**. This feature **reduced human efforts by 30%** and **accelerated the process by 70%**.
- Performed complex data analytics using **PySpark, SQL, and GCP BigQuery** and created comprehensive data visualization and dashboards using **Python (Matplotlib and Plotly), Tableau, and PowerBI**.

Machine Learning Engineer | Hono | Remote, India   **July 2021 – April 2022**

- Deployed Machine Learning model training pipelines for Hono HRMS to automate client specific ML model training by leveraging Data Analytics, **ETL & ELT pipelines**, **Machine Learning Techniques**, and Backend Development.
- Developed HR Management System features like Employee Attrition Forecasting, Promotion Suggestion, and Hike Estimation. Used **Python, SQL, Django, and JavaScript** to develop client agnostic features for Hono HRMS software.

Research Intern under Dr. Kusum Deep | IIT Roorkee   **September 2021 – December 2021**

- Developed **Python** programs for feature selection optimization techniques using Grey Wolf Optimization (GWO) techniques.
- Tested feature selection methods based on Random Walk Grey Wolf Optimization (RW-GWO) over multiple datasets.

Data Scientist | ImagoAI | Remote, India   **April 2021 – May 2021**

- Leveraged Data Analytics, Machine Learning Techniques, and A/B Testing using **Python (Pandas, Numpy, Scikit Learn) and AWS (S3, EMR, RedShift)** to perform automated quality assessment of agricultural produces.
- Deployed AI models using **C++** after training Machine Learning algorithms on Hyperspectral Images of fresh produces.

Research Intern under Dr. Mayank Goswami | IIT Roorkee   **September 2020 – June 2021**

- Experimented on Deep Learning algorithms (implemented using **Python – PyTorch, Keras, Tensorflow**) for semantic segmentation over tumor-infected ocular images of rats to estimate tumor growth and trends.
- Developed **MATLAB software** to accelerate accurate data annotation by leveraging linear algebra and interpolation techniques.
- Trained multiple Deep Learning models (U-Net architecture) over annotated OCT B-Scans and analyzed tumor growth trends.

SKILLS

Programming Languages: Python, C, C++, SQL, JavaScript, HTML, CSS, TypeScript, R, MATLAB, Perl, Java, Hadoop

Data Tools: PyTorch, TensorFlow, Keras, Tableau, PowerBI, PySpark, Databricks, Plotly, Qlik, MongoDB, Snowflake

Software Technologies: Node, React, Django, MongoDB, Vue, Angular, Kafka, Jenkins, Selenium, Git, Vim, Kubernetes

Knowledge: Object Oriented Programming, Data Structures and Algorithms, Relational Databases, Distributed Systems, Front-end Development, Backend Development, Machine Learning, Deep Learning, CI/CD Pipelines, ELT & ETL Pipelines

ML Techniques: Regression, Classification, Clustering, A/B Testing, Time Series, Computer Vision, Natural Language Processing

Cloud Technology & Business Skills: AWS, Google Cloud Platform, Jira, Confluence