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Supriya Dara

Master of Computer Science Graduate

LinkedIn
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Education

Master of Computer Science in, University of Ottawa, GPA: 3.72/4.00 **Sep 2022 — Apr 2024**
Bachelor of Engineering in Computer Science, Chaitanya Bharathi Institute of Technology, GPA: 8.23/10.00 **Sep 2018 — May 2022**

Experience

Machine Learning Intern, **Aarth Software, Hyderabad, India** **Nov 2021 — Jul 2022**

- Built a Python web scraper with **BeautifulSoup** for automating metadata extraction from URLs, achieving a **98% success rate** in scraping product schema from the top 5 Google search results.
- Collaborated with the **DevOps team** to deploy machine learning models using **Docker** and **Kubernetes**, ensuring scalability and efficient resource utilization.
- Developed **RESTful APIs** with **Flask** to facilitate model integration with front-end applications, improving user accessibility and experience.
- Conducted **unit testing** and **code reviews** to maintain high code quality and reduce bugs, adhering to **Agile** development methodologies.

Data Science Intern, **Exposys Data Labs, Remote, India** **May 2021 — Aug 2021**

- Developed a **Diabetes Prediction model** using the PIMA Diabetes dataset with **Python**, applying a variety of machine learning techniques to achieve a notable accuracy of **78%** via the **K-Nearest Neighbor** method.
- Worked with **SQL** and **NoSQL** databases to manage and query large datasets, ensuring data integrity and availability.
- Actively participated in and contributed to **team meetings**, delivering comprehensive progress updates and collaborating effectively with cross-functional teams.

Machine Learning Intern, **National Instruments (NI), Remote, India** **May 2020 — Aug 2020**

- Implemented and fine-tuned a **sentiment analysis model** with diverse machine learning techniques in **Python**, involving dataset evaluation, data visualization, and performance optimization.
- Integrated the sentiment analysis model into a **web application** using **Flask** and **JavaScript**, enabling real-time sentiment analysis and user interaction.
- Assisted in the design and implementation of a **CI/CD pipeline** using **Jenkins**, automating the testing and deployment of ML models.

Skills

Languages: Python | Java | JavaScript | C | C++ | HTML | CSS
Libraries/Frameworks: NumPy | Pandas | Matplotlib | Scikit-learn | PyTorch | | SHAP | TensorFlow | OpenCV | FastAPI | Spring Boot | Express | ReactJS | NodeJS | NextJS | Prisma ORM | Tailwind CSS | Supabase | Clerk Auth
Cloud: AWS, **DevOps:** Kubernetes | Docker | CI/CD | Git | Terraform, **Developer Roles:** Full Stack | Frontend | Backend | Microservices
Other: API | Jira | Code Review | SQL/NoSQL Databases | Unit Testing | Agile Methodologies | S3 Buckets | EC2 | Kafka

Projects

AWS Content Moderation System (AWS, Python, Node.js, EC2, API Gateway, Lambda, SQS, SNS, DynamoDB, CloudFormation)

- Implemented and deployed a robust cloud-based system for **content moderation**, enabling real-time detection and tagging of inappropriate content.
- Developed **SQS** for efficient batch processing and notifications, ensuring timely alerts to administrators, and leveraged **CloudFormation** for Infrastructure as Code (IaC) to streamline deployment and maintain infrastructure consistency.

Biometric Verification Web App (Java, HTML, Javascript, JSP, MySQL)

- Worked with team to develop a web application containing **encrypted fingerprint files** in a database/cloud for user login verification.
- Improved user interface experience by focusing on **front-end development**.
- Created a Java module converting fingerprints into **Greymap matrix format** based on **Minutiae of fingerprints**.

Academic Research Portal Development (React JS, NodeJs, MongoDB, SQL, Prisma ORM, GraphQL, ExpressJS**)**

- Led a research team in developing a web portal for academic researchers to share and collaborate on research papers and datasets.
- Implemented **user roles and permissions** using **GraphQL** for efficient data querying to ensure secure access to research materials.

Log-based Anomaly Detection (Python, PyTorch, Scikit-learn, Transformers)

- Implemented **RoBERTa** for feature extraction from **unstructured log data**, enhancing **anomaly detection** accuracy significantly.
- Achieved an **F1-score of 0.99** in identifying **anomalous logs**, surpassing traditional **TF-IDF** methods, validated on the Hadoop Distributed File System (HDFS) dataset.