

Shyamal Mishra

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SKILLS

Languages: Java, Python, C++, SQL, JavaScript, HTML5, CSS

Databases & Frameworks: NoSQL, MySQL, PostgreSQL, MongoDB, React, Node.js, Flask, TensorFlow

Libraries & Tools: Kafka, Git, Docker, Pandas, NLTK, OpenCV, scikit-learn, Pandas, NumPy, selenium, SciPy

Others: Linux, git, GCP, REST API, Jenkins, Postman, PyTorch, Kubernetes, JIRA, AWS, PySpark, SOAP, Gen AI

EDUCATION

Master of Science - Computer Science | Drexel University | GPA: 3.7/4.0 **Aug 2022 – Jun 2024**

Relevant coursework: Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Software Architecture, Cloud Computing, Computer Vision, Agile Software Development

Bachelor of Technology - Information Technology | KIIT, Bhubaneswar **Jul 2015 – Mar 2019**

EXPERIENCE

Data scientist | SOAR Lab, Drexel University, PA, USA **Jun 2023 – Dec 2023**

- Designed a Natural Language Processing (NLP) bot distinguishing toxic interactions, leading to an 89% accuracy rate.
- Improved model accuracy on classification tasks by fine-tuning LLMs with transfer learning techniques.
- Accepted Paper: "Exploring ChatGPT for Toxicity Detection in GitHub", at the 46th International Conference on Software Engineering (**ICSE, Apr 2024**) (Acceptance rate: 22%)

Software Developer | Deloitte, Hyderabad **Apr 2019 – Aug 2022**

- Led the development of a robust data synchronization framework, leveraging real-time update mechanisms and advanced algorithms to ensure seamless integration across 7 platforms.
- Implemented indexing and caching strategies for search functionality, cutting average search latency by 600 ms.
- Developed a custom chunked data transfer system with parallel processing reducing large file transfer timeouts by 13%.
- Introduced Spark for efficient data ingestion by replacing legacy methods, which enhanced API monitoring capabilities.
- Integrated Medicaid modules and resolved critical production issues, benefiting thousands of Rhode Island users.

Web Developer Intern | Tata Technologies, Jamshedpur **May 2017 – Aug 2017**

- Contributed to creating a cafeteria ordering app, leading to an average decrease of 4 minutes in food delivery time.
- Revamped the menu navigation structure to categorize items more effectively and improve discoverability.

ACADEMIC PROJECTS

AI-Powered Puzzle Solver **Jan 2024**

- Crafted an agent that utilized BFS, DFS, and A* search algorithms, successfully achieving a solve rate of 95%.
- Utilized Q-learning in maze-solving, resulting in a 90% completion rate with an average path length of 25 steps.

Wildlife conservation using Image Identification System **Nov 2023**

- Developed animal species detection and classification models utilizing TensorFlow and transfer learning techniques.
- Faster R-CNN outperformed SSD with an overall accuracy of 91% and higher mean average precision scores.

Full Stack Mental Health Support Platform **Jun 2023**

- Created a well-being platform for emotion analysis, Mood Tracking, and online community support.
- Incorporated an interactive chatbot for conducting assessments providing users with personalized insights.

ACHIEVEMENTS & CERTIFICATION

Teaching Assistant for Programming languages & DBMS | Drexel University **Sep 2023 - Mar 2024**

Secured **second place among 12 groups in developing user interface.** | Drexel University **Mar 2024**

Community Outreach Coordinator at Sashakti Foundation | Public Relations and Community Engagement

Earned Certification in Pytorch for Deep learning | LinkedIn (Credential: ATbW2062_UArLgVzT2yNyXxr92Tn)