

Akshat Saraswat

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SUMMARY

Passionate AI/ML engineer with a strong background in deep learning, computer vision, natural language processing, web development. Skilled in Python, TensorFlow, PyTorch, and various ML libraries. Eager to partner with like-minded individuals and professors to contribute towards research in common domains, aspiring to delve into innovative projects that bridge the gap between cutting-edge technology and its impactful applications.

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, HTML5, Javascript

Frameworks: TensorFlow, PyTorch, Keras, CSS, Bootstrap, React

Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, Git

EXPERIENCE

Summer Research Intern

National Institute of Technology Trichy

June 2024 – July 2024

Trichy, Tamil Nadu, India

- Conducted research on reinforcement learning algorithms for robotics in my first week.
- Conducted research on Natural Language Processing (NLP) applications for non-clinical text analysis.
- Developed and implemented algorithms to extract and analyze meaningful information from diverse text sources.
- Compiled a comprehensive report detailing methodologies and potential applications at the conclusion of the internship.

Machine Learning Project Intern

University of Oxford

March 2024 – May 2024

London Area, UK

- Worked on Oxford's flower dataset, Stanford's dog dataset, and MNIST digit recognition dataset.
- Optimized model performance on each dataset and ensured a very high data quality.
- Worked on data augmentation, data processing, exploratory data analysis, neural networks, CNNs, and RNNs.
- Submitted a complete project report citing new research and valuable info at the completion of the project.

Web Development Intern

Pinklabs Biosciences Ltd.

June 2024 – July 2024

New Delhi, India

- Designed and developed engaging web interfaces tailored for medical professionals.
- Created intuitive and visually appealing landing pages and portfolio pages.
- Collaborated with the research team to refine models and improve accuracy in text processing tasks.
- Compiled a comprehensive report detailing methodologies and potential applications at the conclusion of the internship.

PROJECTS

Fashion Recommendation System

Machine Learning Project

Jun 2024 – Jul 2024

Python and its libraries

- Efficient Recommendations: Utilizes VGG16 embeddings and cosine similarity to recommend similar fashion items.
- Visualizations and Precomputed Embeddings: Includes visualizations and employs precomputed embeddings for faster performance.
- Future Enhancements: Plans to expand the dataset, adopt advanced models, and create a user-friendly interface.

Malicious Link Detector

Machine Learning Project

Jan 2024 – March 2024

Python and its libraries

- A web app uses a machine learning model and a Kaggle dataset to detect defaced malware and malicious links. Currently, the model operates through terminal commands.
- Full integration with a browser co-extension is pending. Access the project through the portfolio website

Portfolio Website

Web Development Project

Nov 2023 – Dec 2023

HTML5, CSS, Bootstrap, Javascript

- Created a personal portfolio site using HTML, CSS, and JavaScript to professionally showcase my web development skills.
- Featured my key projects and achievements on the site, demonstrating my expertise and accomplishments in web development, machine learning, and artificial intelligence.
- Designed the site to reflect my enthusiasm for web development, incorporating modern design principles and interactive elements.

EDUCATION

Guru Gobind Singh Indraprastha University, New Delhi

B.Tech in Artificial Intelligence and Machine Learning (8.01 cgpa till 4th semester)

New Delhi, India

Nov 2022 – Present

LCIT Public School, Bilaspur

High School and Intermediate (90.4 percent and 84.4 percent)

Bilaspur, Chhattisgarh, India

April 2018 – March 2022

CERTIFICATIONS

- IBM CERTIFIED Machine Learning with Python (with Honors)
- IBM CERTIFIED Introduction to Artificial Intelligence (with Honors)
- UNIVERSITY OF MICHIGAN CERTIFIED Course on Industrial Internet of Things

EXTRA-CURRICULAR ACTIVITIES

- AIML Project Lead at INTEL iosc club, GGSIPU.
- Ex- Member, Karu Yantra Robotics Club, GGSIPU.
- Community Member, Robinhood Army, New Delhi.
- Ex-Community Member, Child Rights and You, New Delhi.

ACHIEVEMENTS

- Presenting 3 research papers in Machine Learning, Deep Learning, and Additive Manufacturing in ICAPIE conference in August'24.
- Top 20 state rank in International Mathematics Olympiad.
- Played cricket at University level and played two seasons of USAR Premier League.
- Cleared 50+ student doubts in Mathematics and Science on the Studypool app, tutored 2 students one-on-one.