SHASWAT SRIVASTAVA

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EDUCATION

University of Southern California Los Angeles, California
Master of Science, Computer Science, CGPA: 3.5/4.0 August 2023-May 2025
Relevant Coursework: Artificial Intelligence, Machine Learning, Web Development, Analysis of Algorithms, Information Retrieval

SRM Institute of Science and Technology Chennai, India
Bachelor of Technology, Computer Science Engineering, CGPA: 9.5/10 June 2019-June 2023

TECHNICAL SKILLS

- Programming Languages: C/C++ (Advanced), Python (Advanced), C#, Javascript, HTML/CSS, R, SQL
- Technologies: Deep Learning, Representation Learning, Docker, Causal Inference, Sequence Modeling, Git, Unity
- Data Science: TensorFlow, Keras, PyTorch, PowerBI, Tableau, Google Colab, OpenCV, NLTK, Jupyter Notebooks, and RStudio

PROFESSIONAL EXPERIENCE

University of Southern California Los Angeles, CA
Data Analytics & Operations Specialist April 2024-May 2025
- Built and currently maintain an inventory tracking tool leveraging Python, integrated with CBOARD and Salesforce, delivering real-time insights and automated alerts that reduce inventory shortages by 20%
- Coordinated with cross-functional teams, including operations, finance, and logistics, to tailor tools to department needs, driving a 30% increase in adoption

SRMIST with NHS Chennai, India
Deep Learning Research Intern July 2022-May 2023
- Led collaborative research on “Automatic Identification of Knee Implants using Image Processing and AI,” employing image segmentation and feature extraction techniques, reaching 86% accuracy with a custom deep learning model
- Leveraged advanced CNN models such as VGG-18 to analyze production data, increasing efficiency by 27%
- Initiated ML models using Docker for scalable and efficient processing, augmenting manufacturing capacity by 31%

Indian Oil Corporation Limited Mumbai, India
Software Intern June 2022-August 2022
- Optimized internal communication processes utilizing NLP with NLTK, improving efficiency and information flow by 18%
- Designed an NLP classification system with NLTK to categorize communications, decreasing response time by 20%
- Applied sentiment analysis via BERT models to evaluate employee sentiment from emails, improving decision-making by 8%
- Streamlined paperwork processes with OCR and Python scripts, securing a 50% reduction in manual documentation

Spardha Learnings Private Limited Pune, India
Project Intern June 2021-August 2021
- Built two frontend modules to visualize AI-driven insights and progress reports, utilizing HTML, CSS, and JavaScript
- Constructed an AI recommendation system to personalize learning content, increasing user engagement by 10%

PROJECTS

QuickAI: Rapid Machine Learning Model Development and Deployment Platform June 2023-March 2024
- Created an AutoML tool with Scikit-learn and TensorFlow in cooperation with team members, automating model selection and hyperparameter tuning to reduce development time by 30%
- Engineered backend through Flask with the development team, boosting efficiency by 25% through ML model integration

Project CycloTron: Tropical Cyclone Intensity Prediction January 2022-August 2022
- Developed the Deep Learning model with YOLO v3 object detection, Keras Xception, and Resnet50 via TensorFlow, for the Indian Space Research Organization to predict tropical cyclone intensity by analyzing infrared images from satellites
- Achieved 95% accuracy by engineering a web application with JavaScript (NodeJS) and HTML/CSS

ACHIEVEMENTS

- IBM AI Engineering Professional Certificate: Completed advanced coursework in advanced AI and ML, July 2024
- Authored and presented at AI Conference: "Demystifying Deep Learning Techniques in Knee Implant Identification", April 2024
- Winner, Smart India Hackathon: Selected among 30,000+ participants for India’s largest hackathon, August 2022
- Vice President, The Data Science Club: Led data-driven projects and cultivated a data science culture, May 2021 - July 2022