

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	
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), Javascript, HTML/CSS, R, SQL
- Technologies: Deep Learning, Representation Learning, Multi-Task Learning, Causal Inference, Sequence Modeling
- Data Science: TensorFlow, Keras, PyTorch, PowerBI, Tableau, Google Colab, OpenCV, NLTK, and RStudio
- Tools: Git, Jupyter Notebooks, Docker

PROFESSIONAL EXPERIENCE

SRM IST with NHS	Chennai, India
Deep Learning Research Intern	July 2022-May 2023
<ul style="list-style-type: none">• Pioneered and spearheaded research on "Automatic Identification of Knee Implants using Image Processing and Artificial Intelligence," driving advancements by developing a Deep Learning Model with an 86% accuracy rate• Leveraged advanced deep learning models such as CNNs and RNNs to analyze production data, boosting efficiency by 27%• Deployed 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
<ul style="list-style-type: none">• Optimized internal communication processes using AI technologies, improving efficiency and information flow by 18%• Created a natural language processing (NLP) system to analyze and categorize internal communications, reducing response time by 20%• Implemented sentiment analysis models to gauge employee sentiment from emails, improving decision-making by 8%• Spearheaded efforts to digitize and automate paperwork processes resulting in a 50% reduction in manual documentation	
Spardha Learnings Private Limited	Pune, India
Project Intern	June 2021-August 2021
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Designed an automated machine learning (AutoML) tool to streamline model selection and hyperparameter tuning, reducing model development time by 30%• Engineered the backend using Python and Flask, boosting deployment efficiency by 25% through ML model integration• Employed Scikit-learn and TensorFlow for model creation, elevating user satisfaction by 18% with an intuitive AI interface	
Project CycloTron: Tropical Cyclone Intensity Prediction using Infrared Images	January 2022-August 2022
<ul style="list-style-type: none">• 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 their satellites• Achieved 95% accuracy by engineering a web application using JavaScript (NodeJS) and HTML/CSS	

ACHIEVEMENTS

- Completed the IBM AI Engineering Professional Certificate through Coursera, gaining expertise in machine learning, deep learning, and AI deployment, July 2024
- Authored and presented "Demystifying Deep Learning Techniques in Knee Implant Identification" at the International Conference on Emerging Trends and Applications in Artificial Intelligence, April 2024
- Published "Mental Health Assessment Using AI with Sentiment Analysis and NLP" at the International Conference on Recent Trends in Data Science and its Applications, June 2023
- Winner of Smart India Hackathon 2022, India's largest national Hackathon with Project CycloTron, August 2022
- Served as VP of the Data Science Club, promoting a data science culture through diverse projects, May 2021 - July 2022