

Harsh Gupta

Email: harshgup11@gmail.com

Mobile: +91 7742469302

GitHub: <https://github.com/harshgupta1810>

Education

Presidency University

Bachelor of Technology in Computer Science, GPA: 7.1

AIPS

High School Diploma, CGPA: 7.3

Bengaluru , Karnataka

June 2024

Deoli, Rajasthan

March 2020

Work Experience

Deotech Solution Pvt. Ltd.

Machine Learning/ AI Intern

Jaipur, Rajasthan

04 2024 - Present

- Built an AI-powered video conferencing app with FastAPI, AWS EC2, and S3, scaling to 1,000 bots in under 1 minute.
- Cut latency by 20% via asynchronous video processing with asyncio.
- Deployed a Generative AI chatbot with Rasa NLP and LLM models, boosting accuracy by 30%. Led a 3-member team for chatbot integration using AWS Lambda and REST APIs.
- Managed MLOps pipelines with Airflow, enabling continuous integration and reducing latency by 25%.

Deotech Solution Pvt. Ltd.

ML Intern

Jaipur , Rajasthan

November 2023 – April 2024

- Improved stock market prediction accuracy by 15% using Random Forest and LSTM models deployed on AWS, impacting a user base of 500+ financial analysts.
- Automated stock data processing using REST APIs and AWS Lambda, cutting manual effort by 40 %.
- Streamlined MLOps workflows with a 3-member team, improving monitoring and speeding up deployments.

Leadership & Activities

Presidency Department of Student Affairs

Member, DSA Core Committee

Bengaluru

September 2020 –May 2024

- Led student engagement initiatives, boosting participation by 30% through social media campaigns.
- Organized "Invensia," a major fest, overseeing coordination and marketing, improving event turnout by 25%.
- Advocated for curriculum improvements, leading to enhanced resource allocation within the department.

Projects

Intelligent Surveillance System

- Developed anomaly detection model using CNN with TensorFlow and OpenCV, achieving 95% accuracy via hyperparameter optimization.
- Integrated real-time anomaly detection using Python and ONNX, reducing detection time by 15%.
- Deployed system using Flask and FastAPI, enabling real-time alerts and improving system performance by 10%.

Skills

- Languages:** Python, SQL, Lua, C, C++,MATLAB,JAVA, JavaScript
- Frameworks & Tools:** Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, Keras, Spark, Power BI, Tableau, MySQL, SQLite, Docker, Kubernetes, Flask, FastAPI, OpenCV, ONNX, Jupyter
- Technical Skills:** Data Analytics, Feature Engineering, Computer Vision, NLP, Deep Learning, Statistical Models, MLOps, AWS, Time Series Analytics, Machine Learning, LLM, Git, Statistical models, Bayesian, regression, linear optimization, Graph Applications, OOPs
- Soft Skills:** Problem-solving, Communication, Collaboration, Stakeholder Management, Leadership

Research Paper

- Forecasting Commodity Prices using Machine Learning.* Published in the *International Journal of Scientific Research in Science and Technology (IJSRST)*, 2024. This paper presents a machine learning framework for predicting commodity prices, integrating models like Random Forest and LSTM for high accuracy.
<https://ijsrst.com/home/issue/view/article.php?id=IJSRST52411110>