**Harsh Gupta**

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

**Education**

**Presidency University** Bengaluru , Karnataka

**Bachelor of Technology in Computer Science**, **GPA**: 7.1 June 2024

**AIPS** Deoli, Rajasthan

**High School Diploma**, **CGPA**: 7.3 March 2020

**Work Experience**

**Deotech Solution Pvt. Ltd**. Jaipur, Rajasthan

**Machine Learning/ AI Intern** 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.** Jaipur , Rajasthan

**ML Intern** November2023 – 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** Bengarulu

**Member, DSA Core Committee** 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 Survillance 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