

VARUN GUPTA

MLOPS



7988603077

varungupta7988@gmail.com



Ambala cantt, Haryana, India

PROFILE

Aspiring MLOps enthusiast with experience in building production-grade **ML pipelines** using PySpark, MLflow, and Databricks. Skilled at automating model lifecycle workflows with cloud-native MLOps, including data transformation, feature engineering, model versioning, and deployment. Quick learner passionate about creating scalable, reproducible systems to solve real-world problems.

SKILLS

- Back End Coding
- Logical Thinking
- Test and debug Programs
- Front End Coding
- Problem-Solving
- Computer Literacy
- Team Spirit
- Strong Communication

MACHINE LEARNING

Regression:

Linear, Decision Tree, XGBoost

Classification:

Logistic, RandomForest, SVM, KNN, NaiveBayes

Clustering:

K-Means

CERTIFICATIONS

- Python
- Data Science (Machine Learning)

TECHNICAL SKILLS

- **Languages :** Python
- **Structured Database :** MySQL
- **No-SQL:** MongoDB
- **Data Science**
- **MLOps:** MLflow, DVC, Azure Databricks
- **Versioning Tools :** Git, Github
- **Web Frameworks/ REST API :** Flask, FastAPI
- **Web Designing :** HTML, CSS
- **Development Tools :** VsCode, Notion
- **Cloud:** Azure (Azure Databricks)
- **Deployment :** Docker
- **Web-Scraping :** Selenium

PYTHON LIBRARIES

- **Data Processing :** Pandas, Numpy
- **Graphs :** Matplotlib, Seaborn
- **Machine Learning :** Sklearn
- **API Frameworks :** Flask, FastAPI
- **Dashboarding :** Streamlit, Power BI

EDUCATION

Bachelor Of Computer Applications (2024)

- University: Chitkara University
- CGPA: 8.75

WORK EXPERIENCE

• Churn Guard

Technology: Azure Databricks, MLflow, Workflows, Delta Lake, Docker

- Developed a comprehensive Customer Churn **Prediction pipeline** on **Azure Databricks** by integrating advanced machine learning models such as XGBoost and Random Forest.
- Utilized **MLflow** for tracking experiments and Workflows for streamlined operations.
- This initiative significantly enhanced the accuracy of churn detection by **25%**, enabling more effective and proactive customer retention strategies.
- Collaborated with cross-functional teams to ensure seamless integration of the pipeline with existing systems.
- Conducted regular evaluations and updates to maintain optimal performance and adapt to changing customer behaviors.

• Data Science Intern - DataMites

- Assisted in data analysis and **predictive modeling**, gaining hands-on experience.
- Worked with the team to create and test machine learning models.
- Helped collect and clean large datasets.
- Contributed to improving model predictions.
- Participated in team meetings to discuss progress.

Supported integrating models into systems for better decision-making.

PROJECTS

• AI-Monitoring System:

Technology: Python, Flask, Machine Learning, MongoDB

- Developed and executed a sophisticated system for real-time tracking of employees or students.
- Automatically identifies check-in status, assesses productivity, and records idle time.
- Produces comprehensive reports to assist employers and educators in making informed decisions that enhance efficiency and performance management.
- Integrates seamlessly with existing HR and educational management systems.
- Provides customizable alerts and notifications for immediate action on key metrics.
- Utilizes advanced analytics to predict trends and potential issues.

• Automated Review Mining System:

Technology: FastAPI, Python, Selenium, Docker, and NLP

- Developed a content scraping system using FastAPI, Selenium, and Docker to extract data from Twitter, LinkedIn, and Glassdoor.
- Applied NLP techniques (text cleaning, sentiment analysis, topic categorization) to analyze and structure unorganized review data.
- Generated insights into company culture to help candidates make informed choices and organizations identify areas for improvement.