

# VARUN GUPTA

## MLOPS

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## 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

## CERTIFICATOINS

- Python
- Data Science (Machine Learning)

## EDUCATION

### Bachelor Of Computer Applications (2024)

- University: Chitkara University
- CGPA: 8.75

## 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

## 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.

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## 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.