

VISHAL GAHLOT

ML ENGINEER | DATA SCIENCE | DATA ANALYST

CONTACT

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PROFILE

Machine Learning Engineer | Data Science with hands-on experience in ML model development, data preprocessing, deep learning, and AI deployment. Passionate about building data-driven solutions and optimizing ML workflows. Seeking to leverage my skills in Python, TensorFlow, and data analytics to build impactful AI solutions that drive business value.

SKILLS

Programming: Python (NumPy, Pandas, SciPy, Scikit-learn, Statsmodels), SQL, R, Bash, Git/GitHub

ML & AI: TensorFlow, Keras, PyTorch, Scikit-learn, XGBoost, LightGBM, CatBoost, Machine Learning Algorithms (Regression, Classification, Clustering), Deep Learning, Transfer Learning, Computer Vision, NLP (spaCy, NLTK, Hugging Face), Predictive Modeling, Model Evaluation & Optimization (Cross-validation, Grid/Random Search)

Data Processing & Analysis:

Exploratory Data Analysis (EDA), Feature Engineering, Data Cleaning & Transformation, Time Series Analysis, Statistical Analysis, Hypothesis Testing, A/B Testing, Dimensionality Reduction (PCA, t-SNE), Data Aggregation, Data Wrangling

Data Visualization: Tableau, Power BI, Google Data Studio, Matplotlib, Seaborn, Plotly, Dash, Bokeh, Excel Charts, Interactive Dashboard

Databases: SQL Server, MySQL, PostgreSQL, SQLite, MongoDB, Oracle, Query Optimization, Data Modeling, Stored Procedures, NoSQL

EXPERIENCE

Machine Learning Engineer

Pace Developers LLM | October 2024 – Present

- Building predictive models to identify potential project delays using historical and real-time construction data.
- Applying computer vision techniques to detect cracks and material defects from construction site images and videos.
- Analyzing equipment usage patterns with ML algorithms to reduce idle time and improve resource efficiency.
- Developing interactive dashboards with Power BI to support real-time decision-making on active construction sites.
- Collaborating with engineers and project teams to integrate data-driven insights into daily operations and planning.

Jr. ML Engineer

Feynn Labs | feb 2024- October 2024

- Developed and fine-tuned **ML models** for real-world applications.
- Preprocessed and analyzed large datasets using **Python, Pandas, and NumPy**.
- Built and optimized **deep learning models** using **TensorFlow, Keras & PyTorch**.
- Deployed ML models using **Flask & FastAPI**.
- Collaborated with cross-functional teams to integrate AI solutions.

Big Data & Cloud: Apache Spark (PySpark, Spark SQL), Hadoop (HDFS, MapReduce), Data Warehousing (Redshift, Snowflake, BigQuery), AWS (S3, EC2, Lambda, RDS), Azure (Data Lake, Synapse), Google Cloud Platform (GCS, BigQuery), Kafka

Tools & Deployment: Jupyter Notebook, Excel (Power Query, Pivot Tables), Flask, FastAPI, Streamlit, Docker, Airflow, MLflow, Git, CI/CD, REST APIs, VS Code, Linux/Unix Command Line

EDUCATION

Advanced Certification in Data Science and Decision Science, IIT Delhi (2024 - Present)

Coding Invaders, Data Science Certification

Arena Animation, Web Development (2015-2018)

B.sc.(Computer Science) **IGNOU** (2015-2018)

Central Board of Secondary Education (CBSE), Higher Secondary (10+2) (2014)

Data Scientist

SGS Teknics Manufacturing Pvt. Ltd. | 2021- 2024

- Developed predictive models to improve equipment maintenance, reducing downtime by 20%.
- Analyzed production data to identify bottlenecks, leading to a 15% improvement in efficiency.
- Created automated data pipelines using **Python** and **SQL** to streamline data processing.
- Built dashboards with **Tableau** to visualize production trends and key performance metrics.
- Applied machine learning techniques to optimize quality control, reducing defect rates by 18%.

Projects

EV Market Entry Strategy (Data Science Project)

- Conducted **data analysis** on the **Electric Vehicle market** to identify growth opportunities.
- Built **predictive models** using **Python** and **Pandas** to forecast **demand and pricing trends**.
- Analyzed **EV charging infrastructure** and its impact on adoption rates.
- Assessed **government policies and incentives** affecting EV market growth.
- Visualized insights using **Seaborn** and **Matplotlib**.

MindEase (Mental Health Chatbot | NLP Project)

- Developed an **AI-powered chatbot** for mental health support using **NLP techniques**.
- Implemented **sentiment analysis** using **NLTK** and **SpaCy** to understand user emotions.
- Trained the chatbot using **transformer-based models (BERT, GPT-3)** to provide personalized responses.
- Deployed the chatbot using **Flask** and **integrated it with Telegram**.
- Enhanced chatbot performance using **active learning** and **user feedback loops**.

Certifications & Courses

- **Completed Network Implementation Workshop** – Network Bulls, Gurugram
- **Google IT Automation in Python** – Coursera

