



# AMAN BHATT

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## 📄 Summary

Data Scientist & Machine Learning Engineer specializing in forecasting, real-time ML systems, and MLOps. Proven ability to deliver production-grade models with <3% MAPE, architect low-latency data pipelines with Spark, Kafka, and AWS, and design CI/CD-driven ML workflows for scale and reliability. Experienced in bridging research with engineering, enabling grid operators, renewable energy firms, and enterprises to make data-driven decisions at speed. Passionate about building AI systems that last and driving measurable business impact.

## 📁 WORK EXPERIENCE

- Assistant Manager**, BSES Rajdhani Power Limited (BRPL) 2025 Apr – present  
New Delhi
- Leading the design and deployment of short-term and day-ahead load forecasting models, enhanced with an LLM-powered assistant built using LangChain that allows grid operators and planners to query demand forecasts and scenario analyses in natural language, improving decision-making speed, transparency, and operational efficiency across BRPL's service zones.
- Machine Learning Engineer**, Renew Power (Climate Connect Digital) 2022 Jun – 2025 Apr  
Gurugram
- Led the development of predictive models for Delhi Discoms (BRPL, BYPL, TPDDL), achieving a 3% MAPE using Neural Networks, LightGBM, CatBoost, and XGBoost for day-ahead and intraday forecasting. Integrated real-time weather data while leveraging Apache Spark and Kafka for efficient data handling.
  - Developed solar and wind forecasting models for REMC-Telangana (166 plants), designing high-precision week-ahead energy predictions. Deployed models using AWS SageMaker, with automated CI/CD pipelines for seamless updates.
  - Conducted extensive research and development on price forecasting at IEX, employing diverse models and achieving a notable 7.5% MAPE with innovative strategies using the lightgbm model.
- Engineer**, S & B Engineers & Constructors 2019 Aug – 2020 Sep  
Noida
- Designed foundation for different equipment and structures that are usually present in oil refineries using softwares like AutoCAD, StaadPro, RISA Base, Foundation 3D, RAM Connection etc.

## 🧠 TECHNICAL SKILLS

### Machine Learning/Artificial Intelligence

Python | Object Oriented Programming | Data Structures and Algorithms | SQL | Statistics | Data Visualization | Machine Learning algorithms

### Deep Learning

ANN | CNN | RNN | LSTM | GRU | Autoencoders | Transformers | Natural Language Processing | Generative AI | Langchain | LlamaIndex

### Python Packages and Frameworks

Numpy | Pandas | Matplotlib | Plotly | Scipy | Scikitlearn | Tensorflow | Keras | Streamlit | Optuna

### MLOps & Big Data

Apache Spark | Kafka | Airflow | AWS | Kubernetes | Hadoop

## 🎓 EDUCATION

- Civil Engineer**, Aligarh Muslim University 2015 – 2019  
Grade: 9 CGPA
- Intermediate**, Bal Vidya Mandir Sr. Sec. School 2014 May  
Percentage: 91.25%