

# Om Pandey

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## SKILLS

**Machine Learning & AI:** Regression, Classification, Clustering, Time-Series Forecasting | Scikit-learn, TensorFlow, Pandas, NumPy | LSTMs, RNNs | Feature Engineering | Model Evaluation | Hyperparameter Optimization and Tuning  
**MLOps & Deployment:** FastAPI, Streamlit, Docker (Basics), CI/CD for ML Pipelines | AWS (EC2, EKS, CloudFormation, Cloudwatch, SQS), GCP (Compute Engine, Storage, GKE) | Monitoring & Logging for Deployed Models  
**Programming:** Python, SQL, Go, Java, Bash  
**Cloud & DevOps:** GCP, AWS, Docker, Kubernetes, Terraform, Ansible  
**Visualization:** Matplotlib, Seaborn, Power BI

## PROFESSIONAL EXPERIENCE

**Capgemini - Google (External Workforce)** | Gurgaon, India

Software Engineer – Automation Testing & Monitoring | April 2025 – Present

- Developed and maintained automation test pipelines in Go, submitting 20+ high-quality CLs with 95% review acceptance rate.
- Drove down incident response time by 30% by optimizing monitoring and root-cause analysis using logs and SQL queries.
- Enhanced CI/CD pipeline reliability, a transferable skill for ML model deployment and monitoring.

**Capgemini** | Gurgaon, India

Professional - 1 Software Engineer (Cloud & Kubernetes) | July 2023 - April 2025

- Automated CI/CD pipelines with GitLab CI, decreasing deployment times by 40% across multiple projects.
- Led AWS EKS migration improving system uptime and reducing downtime by 25%.
- Monitored containerized workloads, tuning resources to cut operational costs by 15%.

**Capgemini** | Gurgaon, India

Associate - 2 Software Engineer (Kubernetes & Automation) | June 2022 - June 2023

- Managed Kubernetes workloads and GCP POCs, improving deployment efficiency by 20%.
- Wrote SQL scripts for reporting dashboards, mitigating manual analysis effort by 30%.
- Supported high-availability environments through effective network and service monitoring.

**EMA Solutions Pvt. Ltd.** | Remote, India

Machine Learning Engineer - Internship | June 2021 - July 2021

- Built ARIMA and LSTM models for energy consumption forecasting, increasing forecast accuracy by 20%.
- Applied feature engineering and hyperparameter tuning to optimize production pipelines.

## EDUCATION

**Bachelors in Technology, Computer Science & Engineering (AI & ML Specialization)**

University of Petroleum and Energy Studies, Dehradun | June 2018 - May 2022

## PROJECTS

**Stock Market Forecasting using LSTMs**

- Trained univariate and multivariate LSTM models on historical stock data
- Reduced RMSE by 18% through advanced feature selection and parameter optimization.
- Deployed interactive dashboards using Streamlit for real-time prediction visualization.

**IEEE Research Paper: Mushroom Classification**

- Published a comparative analysis of 14 machine learning algorithms for mushroom classification
- Achieving 100% accuracy while evaluating precision, recall, and F1-score.
- Presented findings at IEEE SMART 2023: [Link](#)

**EDA and Survivor Predictions on the Titanic Dataset**

- Performed data cleaning, feature engineering, and EDA using Pandas, Seaborn, and Matplotlib to identify survival patterns.
- Built and evaluated classification models for survival prediction, tuning parameters to enhance accuracy and interpretability.

## CERTIFICATES

- Using Machine Learning in Trading and Finance
- Machine Learning for Trading - GCP
- IBM Data Science Specialization
- Architecting with Google Kubernetes Engine