SIDDHARTH PATIL
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MACHINE LEARNING ENGINEER | DATA SCIENTIST | MLOPS & PREDICTIVE ANALYTICS
Expert in AI-powered decision-making, real-time forecasting, and ML pipeline deployment

SUMMARY OF QUALIFICATIONS
- 5+ years of experience developing and deploying ML models for forecasting, computer vision, and recommendation systems.
- Expertise in Python, SQL, Flask, Tableau, and ML libraries (TensorFlow, PyTorch, scikit-learn).
- Proven impact in reducing operational costs, optimizing supply chains, and scaling ML solutions across cloud platforms (AWS, GCP, Azure).

TECHNICAL SKILLS
Languages & Libraries: Python, SQL, C++, NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch
ML & AI: Regression, Classification, Time Series, Computer Vision, NLP, Deep Learning, Recommender Systems
Cloud & DevOps: AWS (EC2, Lambda, S3), GCP, Azure, Docker, Kubernetes, Flask
Visualization & BI: Tableau, Power BI, Matplotlib, Seaborn

PROFESSIONAL EXPERIENCE
Machine Learning Engineer
Rathi Dye Chem, Mississauga, ON – Remote (Contract)
May 2024 – Present
- Deployed ML forecasting models (ARIMA, Prophet) to reduce inventory cost by 9%.
- Achieved 91% accuracy in leather species classification using KNN on microscope images.
- Built predictive maintenance model reducing machine downtime by 12–16% (Q3–Q4).
- Deployed real-time ML inference using AWS Lambda & EC2, enabling instant decisions; collaborated with QA, Production, and IT for seamless workflow integration

Data Scientist
Rathi Dye Chem, Mississauga, ON – Remote (Contract)
Jan 2023 – Apr 2024
- Built automated data pipelines and designed production dashboards in Tableau.
- Conducted A/B testing and hypothesis-driven analysis for product enhancements.

Data Science Mentor & Instructor
Great Learning, Mississauga, ON – Remote (Part-time)
Nov 2024 – Present
- Mentored 60+ learners in Python, Statistics, ML, Deep Learning, and Recommendation systems
- Delivered live sessions, course reviews, and one-on-one project support.

ADDITIONAL EXPERIENCE IN MANUFACTURING LEADERSHIP
Production Area Lead
Give & Go Prepared Foods, Brampton, ON – Full-time
Jan 2023 – Present
- Led daily operations of high-speed line, ensuring compliance to SQF Level 3, food safety & KPIs.
- Reduced downtime via root cause analysis & trained teams for continuous improvement.

Manufacturing Manager
Rathi Dye Chem, Maharashtra, India
Jun 2020 – Dec 2022
- Boosted plant utilization from 80% to 92%, improved FTR quality (72%→85%), and cut utility costs by 7%.
- Commissioned DCS-controlled plant; led PSSR, HAZOP & Lean-based cost savings.

Manufacturing Manager
Eternis Fine Chemicals, Maharashtra, India
Jun 2018 – May 2019
- Scaled new plant to 210 MT/month; recruited & trained team of 20 in 2 months.

Production Manager
Vedant Dyestuffs, Maharashtra, India
Aug 2011 – May 2018
- Oversaw daily production, quality reviews & workshop-led employee development.

PROJECTS
- **CNN Classifier (Fruits):** 95% accuracy in rotten vs. fresh fruit detection. Deployed via Flask + AWS EC2.
- **Advanced Regression:** Ranked top 20% (Kaggle, House Prices) using Gradient Boosting & Hyperparameter tuning.
- **Recommender System:** Built collaborative filtering and SVD-based Amazon product recommender.
- **Customer Churn Model:** Used decision trees & random forests to classify potential paid users.
- **Food Hub Analytics:** Performed end-to-end EDA for business optimization using Python + Seaborn.

CERTIFICATIONS
Data Science & Machine Learning – Making Data Driven Decisions
Massachusetts Institute of Technology (MIT), Boston, MA
May 2023 –Aug 2023
Topics: Python & Statistics, Supervised/Unsupervised Learning, Deep Learning, Recommendation systems, Hypothesis Testing.

EDUCATION
PG Diploma, Operations Management
Oct 2016 - Oct 2019
Welingkar Institute, Mumbai

Bachelor of Technology, Dyestuff Technology
Jun 2007 – May 2011
Institute of Chemical Technology, Mumbai