

Sneha Patel

Machine Learning Engineer | AI Researcher | Deep Learning Specialist

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PROFESSIONAL SUMMARY

Highly skilled ML Engineer with 4+ years of experience in deep learning, NLP, and computer vision. Published researcher with expertise in TensorFlow, PyTorch, and large language models. Proven track record of delivering production-grade AI systems.

CORE COMPETENCIES

ML/DL Frameworks: TensorFlow 2.x, PyTorch, Keras, Scikit-learn, XGBoost, LightGBM

NLP & LLMs: BERT, GPT, Transformers, Hugging Face, spaCy, NLTK, LangChain

Computer Vision: OpenCV, YOLO, ResNet, CNN, Image Segmentation

Programming: Python (Expert), R, SQL, Bash, JavaScript

Data Engineering: Pandas, NumPy, Spark, Kafka, Airflow, ETL pipelines

MLOps & Cloud: AWS SageMaker, Docker, Kubernetes, MLflow, DVC, CI/CD

Databases: PostgreSQL, MongoDB, Redis, Elasticsearch, SQLite

Visualization: Matplotlib, Seaborn, Plotly, Tableau, Power BI

WORK EXPERIENCE

Senior ML Engineer — AI Innovations Ltd, Mumbai

March 2021 – Present

- Led team of 5 engineers to build real-time fraud detection system (99.2% accuracy)
- Developed BERT-based document classification reducing manual work by 80%
- Built recommendation engine using deep learning increasing revenue by 35%
- Deployed 10+ ML models to production using Docker and Kubernetes on AWS
- Reduced model inference time by 60% through quantization and optimization

Data Scientist — DataMinds Pvt Ltd, Pune

Aug 2020 – Feb 2021

- Built customer segmentation models using K-Means and DBSCAN clustering
- Performed statistical analysis and A/B testing for product features
- Created ML pipelines using Scikit-learn and Apache Airflow

EDUCATION

M.Tech — Artificial Intelligence & Machine Learning

IIT Bombay | 2018–2020 | CGPA: 9.1/10

B.Tech — Computer Science Engineering

NIT Surat | 2014–2018 | CGPA: 8.8/10

CERTIFICATIONS & PUBLICATIONS

- AWS Certified Machine Learning – Specialty
- Google Professional ML Engineer Certificate
- Published paper: "Attention Mechanisms in NLP" — IEEE Conference 2022
- Deep Learning Specialization — Coursera (5 courses, Andrew Ng)