Nabeel Raza

Senior Machine Learning Engineer

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Profile

Senior AI/ML Engineer with 5+ years of experience in designing and deploying ML models to optimize business processes, and Voice AI. Led projects that improved model accuracy by 30% and reduced processing time by 40%. Experienced in building scalable AI solutions using Python, TensorFlow, and PyTorch.

Experience

Machine Learning Engineer, *Toptal* — 07/2024 — present

- Developed ML & AI models that increased prediction accuracy by 25%, enhancing decision-making processes for stakeholders.
- Optimized data pipelines, reducing processing time by 35% through efficient feature engineering and data preprocessing techniques.
- Implemented deep learning algorithms using TensorFlow and PyTorch, achieving a 20% improvement in model performance on large-scale datasets.
- Conducted end-to-end model training, testing, and validation, contributing to a 15% reduction in system errors and improving overall user satisfaction.
- Automated model deployment processes, cutting deployment time by 50% and improving model scalability across multiple environments.

Senior Software Engineer AI/ML, *Ramped* — 03/2023 — 07/2024

- Led a team of 6 engineers in developing machine learning models, resulting in a 40% increase in project delivery speed.
- Managed end-to-end AI/ML project lifecycles, delivering 8+ high-performance models that increased system efficiency by 30%.
- Upgraded model accuracy by 20% by optimizing feature engineering and algorithm selection for large-scale data sets.
- Monitored model performance and implemented retraining strategies, reducing model drift by 12% over six months.
- Coordinated with data scientists and engineers to design scalable AI solutions, reducing resource consumption by 35% across key systems.

ML Engineer, *Southrac Reno* — 08/2022 — 03/2023

- Spearheaded feature engineering techniques, that reduced 30% model training time and increased overall performance.
- Built and deployed scalable machine learning pipelines, decreasing model deployment time by 40%.
- Analyzed large datasets using Python and SQL, leading to a 20% improvement in data preprocessing efficiency.
- Collaborated with cross-functional teams to integrate machine learning models into applications, contributing to a 10% increase in user engagement.

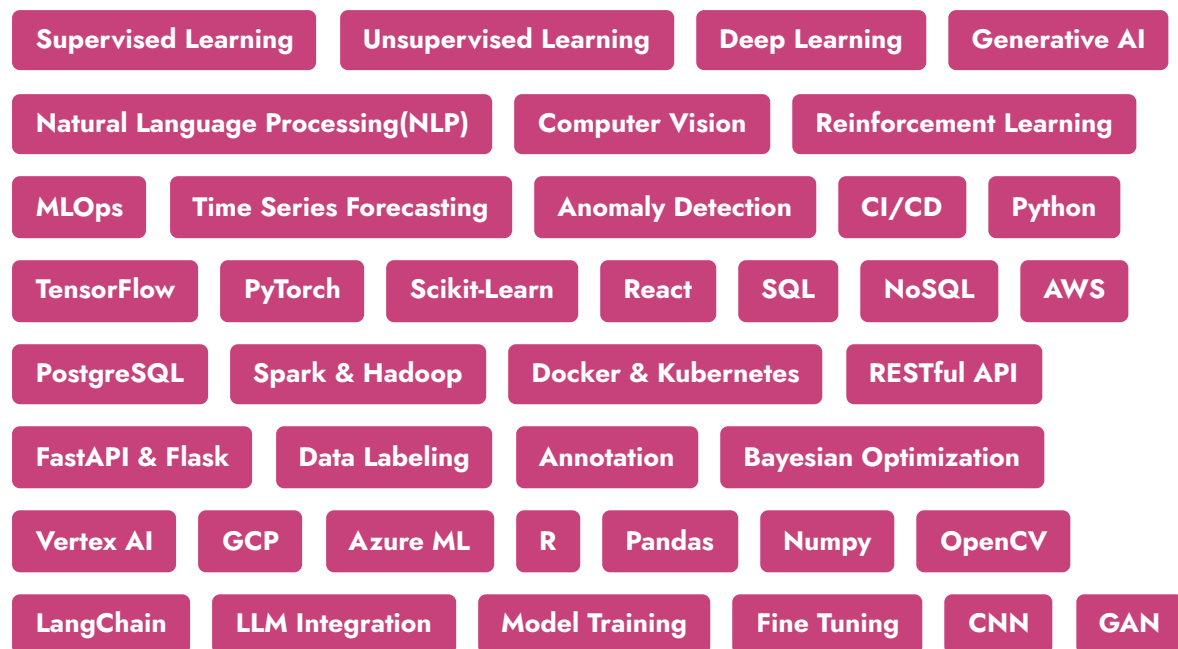**Computer Vision Engineer,** *Powerhouse AI* — 12/2020 — 06/2022

- Streamlined algorithms, reducing model training time by 30% and enhancing efficiency across projects.
- Executed computer vision models that improved image classification accuracy by 15% in real-time applications.
- Integrated AI solutions into existing systems, resulting in a 25% improvement in operational efficiency.
- Oversaw the development of a recommendation engine, boosting user engagement by 25% within 3 months of deployment.

Education

ITU Lahore, *Masters in Data Science* — 09/2018 — 07/2020

BSc. Electrical Engineering, *UET Lahore*   09/2014 — 05/2018

Skills

Supervised Learning   Unsupervised Learning   Deep Learning   Generative AI

Natural Language Processing(NLP)   Computer Vision   Reinforcement Learning

MLOps   Time Series Forecasting   Anomaly Detection   CI/CD   Python

TensorFlow   PyTorch   Scikit-Learn   React   SQL   NoSQL   AWS

PostgreSQL   Spark & Hadoop   Docker & Kubernetes   RESTful API

FastAPI & Flask   Data Labeling   Annotation   Bayesian Optimization

Vertex AI   GCP   Azure ML   R   Pandas   Numpy   OpenCV

LangChain   LLM Integration   Model Training   Fine Tuning   CNN   GAN

Projects

Speech-to-text(STT), *Text Analysis for a call center*

Voice digits recognition, *Flask API for an EdTech startup*

Signature extraction, *Recognition from Documents*

Optimizing pickup, *Delivery points in a ride-sharing platform*