

YUVAL MEHTA

AI/ML Engineer — Data-Driven Decision Maker — Impact-Focused Innovator

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Education

NMIMS - Mukesh Patel School of Technology, Management and Engineering **June 2025**
Bachelor of Technology in Computer Engineering (Integrated 6-year Program) — CGPA: 3.83/4 *Mumbai, India*

- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Data Science, Deep Learning, Natural Language Processing, Computer Vision, Cloud Computing, Database Management, Probability, Statistics

Experience

JM Financial Ltd **July 2024 – November 2024**
Machine Learning / Data Science Intern *Mumbai, Maharashtra*

- Automated KYC processes using computer vision and deep learning, cutting processing time by **40%**.
- Developed OCR solutions to enhance document verification efficiency by **30%**.
- Collected and processed data from databases with over **100,000** records, improving analysis quality.
- Analyzed datasets to derive actionable insights, influencing strategic decisions and operational efficiency by **15%**.
- Created **4+** reports and visuals to communicate findings to stakeholders, enhancing decision-making processes.

IEEE SPS Student Chapter, IIT Kharagpur (Remote) **July 2024 – November 2024**
Machine Learning Intern *Kharagpur, West Bengal*

- Conducted experiments with auto-encoders and GNN, boosting video processing by **30%**.
- Analyzed metrics from **15+** experiments to fine-tune and optimize model performance.
- Optimized hyper-parameters, resulting in a **20%** increase in model accuracy and efficiency

Kenmark ITAN Solutions **December 2022 – April 2023**
Backend Developer Intern *Mumbai, Maharashtra*

- Engineered robust APIs that boosted integration efficiency by **30%** across multiple platforms.
- Implemented comprehensive QA protocols, enhancing overall system reliability by **20%**.
- Revamped SQL and MySQL databases, significantly cutting query response times by **15%**.
- Administered Linux servers, achieving an impressive **98%** uptime while improving team collaboration.

Projects

Image-Lingo | Python, PyTorch, MLflow, TorchServe, Docker, AWS **October 2024**
* Crafted an image captioning model with an **attention mechanism**, achieving **85% accuracy** in generation.
* Leveraged **MLOps** practices using MLflow for experiment tracking, enhancing model performance by **20%**.
* Deployed using **Torch Serve** and containerized with **Docker** for scalable operations on **AWS Cloud**.

Outreach-Ace | Python, Langchain, Chroma DB, LLaMA 3.1 (LLM), Streamlit **September 2024**
* Automated **20+ cold emails** and skill gap analyses using a **Gen-AI model**, enhancing outreach efficiency.
* Created a **Streamlit** interface for resume uploads and job detail extraction, increasing engagement by **30%**.

Urban-Echo | Python, PyTorch, MLflow, Docker, AWS **September 2024**
* Engineered a sound classification model by preprocessing over **8,000 audio samples** to extract vital features.
* Tracked performance metrics with **MLflow**, optimizing training processes and enhancing model accuracy by **25%**.
* Containerized the model using **Docker** and prepared for deployment on **AWS**, ensuring scalability.

Technical Skills

Programming Languages: Python, JavaScript, SQL, C, C++, Java
Libraries: Scikit-learn, NumPy, Pandas, Matplotlib, OpenCV, NLTK, SpaCy, SciPy, Transformers
Frameworks: PyTorch, TensorFlow, Keras, Langchain, MLFlow, Django, Flask, Express.js
Databases: MySQL, PostgreSQL, SQLite, MongoDB, ChromaDB
Tools: VS Code, Jupyter, Kaggle, Git, Github, Power BI, DVC, Docker
Cloud Platforms: AWS, GCP

Publications

IEEE APCIT 2024

Title: Examining Different Machine Learning Approaches for Predicting Diabetes in the Early Stages