

Raj Makhijani

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[LinkedIn](#) | [GitHub](#)

Backend Developer and AI Engineer with 7+ years of experience in Python, Django, and Machine Learning, specializing in building scalable APIs, data pipelines, and AI-driven solutions including LLMs, agentic AI systems, and chatbots. Strong background in data analysis, image processing, and deploying production-ready ML models, with proven ability to lead teams, optimize backend performance, and deliver intelligent, data-driven applications.

SKILLS

- **Languages:** Python (primary)
- **Frameworks & Tools:** Django, Flask, FastAPI, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, OpenCV
- **Machine Learning & AI:** ML (Supervised/Unsupervised), Deep Learning, NLP, Image Processing, LLMs, Agentic AI
- **Data Analysis:** Data Cleaning, Visualization (Matplotlib, Seaborn), Statistical Analysis
- **Database:** MySQL, PostgreSQL, MongoDB
- **Backend & APIs:** RESTful APIs, GraphQL, Microservices Architecture
- **Engineering Practices:** Clean Architecture, Modular Systems, API Optimization, Model Monitoring

KEY ACHIEVEMENTS

- Led a team of 5 developers, delivering 10+ backend and AI projects on schedule with high code quality.
- Designed and scaled backend systems (Django/FastAPI) handling 100K+ API requests/day with ~30% latency reduction.
- Built and deployed ML models (NIDS, predictive analytics) achieving up to 92% accuracy and improved detection rates.
- Engineered data pipelines for 100K+ records, improving efficiency by ~35%.
- Developed AI chatbots using LLMs and agentic workflows, automating user interactions and reducing manual effort by ~40%.

EXPERIENCE

Freelance Backend Developer & AI Engineer

April 2026 – Present

- Building and deploying backend systems, APIs, and AI solutions across domains.
- Developing LLM-based applications and chatbots for automation and workflows.

Backend Developer & AI Engineer (Team Lead) | DDSPL

Sept 2022 – Mar 2026

- Led a team of 5 developers, ensuring timely delivery of backend and AI solutions.
- Automated Tally workflows using Django, XML, and WebSockets (~60% manual effort reduction).
- Built real-time backend systems and LLM-based automation using OpenAI APIs.
- Improved system performance and database efficiency by ~30%.

Machine Learning Trainee | BrainyBeam Info-Tech Pvt. Ltd.

June 2018 – Aug 2022

- Developed ML models and performed data preprocessing and analysis.
- Worked on academic and client-based ML projects using Python.

EDUCATION

Dr. Jivraj Mehta Institute of Technology, Anand

June 2014 – May 2018

Bachelor of Engineering in Computer Science