Yogesh Kumar Saini

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Summary — AI Engineer specializing in Generative AI, Agentic AI systems, and full-stack ML solutions. Experienced in building intelligent web and mobile applications using React, Next.js, TypeScript, and Python. Proficient with modern AI/ML stacks including LLMs, Transformers, TensorFlow, PyTorch, and FastAPI. Skilled in deploying scalable AI pipelines using MLOps practices with Docker, GCP, and CI/CD. Passionate about integrating deep learning and autonomous agents into real-world products.

Skills

Frontend	React, Next.js, Tailwind CSS, HTML5, CSS3, JavaScript, TypeScript, Responsive Design,
Backend	Node.js, Express.js, REST APIs, JWT Auth, FastAPI
Database	MongoDB, PostgreSQL, MySQL, Prisma ORM
DevOps	Vercel, Docker, GitHub Actions, CI/CD
Tools	Git, VSCode, Postman, Figma, ESLint, Prettier
Other	SEO Optimization, Accessibility (a11y), Performance Tuning

Skills

Languages	Python, TypeScript, JavaScript, C++, SQL
Web Dev	React, Next.js, Tailwind CSS, Node.js, Express.js, FastAPI, REST APIs, MongoDB, PostgreSQL
ML & DL	Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, LightGBM
NLP & CV	HuggingFace Transformers, OpenCV, spaCy
MLOps & Data	Pandas, NumPy, DVC, MLflow, Airflow, Docker, GitHub Actions, CI/CD
Generative AI	LangChain, OpenAI API, LLM Fine-tuning, Prompt Engineering, Vector DBs (FAISS, Pinecone), Streamlit

Machine Learning Experience

ML Engineer – Fake Review Detection (Academic Project) **Mar 2024 – May 2025**

- **Technologies Used**: Python, Scikit-learn, TensorFlow, Keras, MLflow, DVC, GitHub Actions
- Detailed and implemented data augmentation strategies to resolve class imbalance, boosting recall on minority class by 17%.
- Outlined robust preprocessing pipelines using TF-IDF and BERT embeddings, improving feature extraction by 22%.
- Implemented CI/CD workflows via GitHub Actions, cutting model deployment time by 30% with automated validation.

Education

Indian Institute of Information Technology **Apr 2022 – Apr 2026**
B.Tech - Computer Science and Engineering *CGPA: 7.2 / 10*

Saraswati Sen. Sec. School Balwantpura, Nawalgarh **July 2021 – Apr 2022**
Class 12th - RBSE (Science Stream) *Percentage: 89%*

Saraswati Sen. Sec. School Balwantpura, Nawalgarh **Apr 2018 – Apr 2019**
Class 10th - RBSE *Percentage: 87%*

Projects

YouTube Comment Analysis **Feb 2025 – Present**

- **Technologies Applied**: Python, Scikit-learn, TextBlob, FastAPI, AWS EC2, Docker
- Created a sentiment analysis model to classify YouTube comments, achieving 88% accuracy.
- Leveraged TextBlob and VADER for sentiment analysis and TF-IDF for feature extraction, reducing processing time by 20%.
- Implemented real-time comment fetching using YouTube API, ensuring up-to-date analysis and insights.

Portfolio Website – GitHub **Jun 2024 – Aug 2024**

- **Technologies Used**: Next.js, React, Tailwind CSS, Vercel, GitHub
- Created a personal portfolio with project galleries, blogs, and responsive layout.
- Outlined image optimization and lazy loading—reduced initial load time by 60%.
- Maintained clean code with 50+ commits, following best Git practices for readability and history tracking.

Certifications

- MERN Full Stack Web Development Certification – View Certificate