Harshit Singh

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Summary

Full-stack developer with expertise in AI integration and MERN stack. Built multiple production systems using large language models (LLMs) and transformer architectures. Proven ability to deliver cost-effective solutions through optimized system design.

Technical Skills

- · AI/ML: Transformers, LLM Fine-Tuning, Qwen Models, PyTorch
- Languages: Python, JavaScript, HTML5/CSS3
- Frontend: React, Tailwind CSS, Responsive Design
- Backend: Node.js, Express.js, REST APIs
- · Databases: MongoDB, Firebase, Atlas
- Tools: Git, Jupyter, WebSockets, Chrome DevTools

Projects

Spokify – Al English Tutor

May 2025

MERN Stack | Qwen-3 | MongoDB Atlas

- Developed conversational AI using transformer models with 89% accuracy
- Designed custom API mediator using MongoDB reducing inference costs by 100%
- Implemented WebSocket communication for real-time feedback

Startup Genie - Business Validator

April 2025

Qwen-3 | Node.js | MongoDB Atlas | Zero-Cost Architecture

- Created Al analyzer processing 150+ queries with 92% satisfaction
- Integrated zero-cost architecture using free-tier cloud services
- Developed PDF report generator for business plans

DPS Gurgaon Report Card System

Jan 2023

Python Automation | Multithreading | Web Scraping

- Reverse-engineered school portal API using Chrome DevTools
- Reduced report retrieval time in v2 by 95% from 30min through parallel requests
- Saved Rs.20,000+ for classmates by bypassing official channels

Education

K.R. Mangalam University

2024-2028 (Exp.)

B.Tech in Computer Science & Engineering Relevant Coursework: Machine Learning, Neural Networks

Delhi Public School, Gurgaon

2017-2023

CBSE Board

Research

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Self-Verifying Language Models

Ongoing

PyTorch | HuggingFace

- Developing architecture for error-detection in LLM outputs
- · Testing feedback-loop systems with 3-layer verification
- · Initial results show 35% improvement in factual consistency