

Yuvraj Singh Thakur

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Summary

Generative AI engineer with 1.5+ years of hands-on experience in Generative AI, Training & Finetuning foundational models and end-to-end ML pipeline implementation. Proven expertise in developing production ready systems that serve large user base with 70% efficiency improvements. Strong background in Python programming, Deep Learning, and modern ML frameworks with demonstrated ability in research, experimentation, and cross-functional collaboration.

Experience

Associate Software Engineer, Valuebound – Bengaluru, India July 2024 – Present

- **Foundational Model Development & Training:** Led end-to-end development of generative AI models for production applications, implementing transformer architectures and fine-tuning techniques for domain-specific performance optimization.
- **AI Interview Assistant - Production ML Pipeline:**
 - Architecture and deployed foundational language models for dynamic question generation, integrating Transformers architecture and custom training pipelines that reduced interview processing time by 70%.
 - Implemented multi-modal AI system combining NLP and computer vision models for real-time behavioral analysis and automated proctoring.
 - Developed robust ML inference pipeline serving 1,000+ candidates across 4 enterprise clients with high availability and low latency requirements.

Associate Consultant, Avaali Solutions – Bangalore, India Jan 2024 – Jun 2024

- **Cross-functional Collaboration:** Worked with distributed teams to integrate AI capabilities into enterprise procurement platform Velocious.
- **Chatbot Integration:** Developed end to end conversational Chatbots for resolving user queries in realtime.

Education

Medi-Caps University, B. Tech in Computer Science and Engineering Nov 2020 – Jul 2024

- CGPA: 8.63/10.0

Projects

LeadLens - Foundational AI Agents for Lead Generation

- **End-to-end ML Pipeline:** Developed comprehensive generative AI system with automated data curation, model training, and deployment pipeline that reduced marketing workload by 70%.
- **Advanced AI Integration:** Implemented Crew AI agents for intelligent web scraping and prospect analysis, utilizing transformer models for personalized content generation.
- **Production Deployment:** Built scalable React.js frontend with robust backend ML services, ensuring high-performance inference and seamless user experience.

AI-Powered Interview System- Multi-modal Foundation Model

- **Model Architecture Design:** Built multi-modal AI system combining language and vision models for comprehensive candidate evaluation and automated proctoring.
- **Research & Experimentation:** Conducted extensive experiments on model accuracy and efficiency, implementing novel scoring algorithms for bias reduction in evaluation systems.

Valuebound Website- Performance optimization

- **System Architecture:** Revamped existing Drupal enterprise website using Next.js with focus on performance optimization, implementing advanced SEO strategies and technical improvements.
- **Pipeline Development:** Established automated deployment pipelines.

Full-Stack Event Management Platform

- **End-to-end Development:** Built comprehensive event management system using React.js and Spring Boot, implementing complex state management and real-time data processing.
- **System Integration:** Developed robust RESTAPI's and database integration for scalable event scheduling and registration workflows.

Technical Skills

Programming Languages: Python, Java, JavaScript, C

ML Frameworks & Libraries: PyTorch, TensorFlow, CrewAI, LangChain, OpenAI APIs

AI/ML Specializations: Generative AI, Large Language Models (LLMs), Multimodal AI, Deep Learning, Neural Networks, RAG, Vector DB, Web Scraping

Development & Deployment: Full-stack Development (React.js, Next.js, Spring Boot), RESTful APIs, CI/CD(GitHub Actions, Docker)