DEEPAK KUMAR R

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SUMMARY

Enthusiastic **Artificial Intelligence and Machine Learning undergraduate** with hands-on experience in building real-time intelligent systems using deep learning, computer vision. Skilled in developing and optimizing models using frameworks like TensorFlow, Keras and PyTorch. Committed to solving complex AI challenges through continuous learning, ethical practices, and research-driven development.

SKILLS

- *Technical Skills*: Artificial Intelligence, Machine Learning, Computer Vision, Python, R Programming, Java, C++, SDLC, SQL, JavaScript, TypeScript, Web Services (RESTful, SOAP), Business Applications, Enterprise Software Integration, Internal Systems, Test Documentation, Scalable Code Design.
- *Frameworks*:   Pandas, NumPy, Matplotlib, Seaborn, Media pipe, Keras, TensorFlow, SciKit-learn

PROJECTS

SLOUCHOMETER - POSTURE CORRECTION DL MODEL - Link
- Pioneered a machine learning posture correction solution leveraging computer vision algorithms, detecting slouching in real-time with 96% accuracy, and promoting health enhancement.
- Built a lightweight, real-time inference pipeline with optimized alert mechanisms for enhanced user engagement.

Multi-function RAG Chat Assistant (Q&A, Summarization, Translation) built with Streamlit
- Spearheaded the construction of a Retrieval Augmented Generation pipeline for PDFs, utilizing PyPDF2, text chunking, Sentence Transformers, achieving 15% higher accuracy than existing models.
- Constructed a hybrid LLM pipeline (Ollama) for conversational Q&A, abstractive/extractive summaries, and integrated Google Translate for multilingual support.

EDUCATION

- **KPR Institute of Engineering and Technology – Anna University**   *2022- 2026*
  Bachelors in Computer Science Specialization in AIML – **CGPA : 8.15**

- **Kongu Matriculation Higher Secondary School ,Tirupur , Tamil Nadu**   *2020-2022*
  Computer Science with Mathematics – **86%**

ACHIEVEMENTS

- Winner – Idea Pitch Competition, **RMC'25 IISc Bangalore** (₹40,000 cash prize)
- Winner – **InnovSense Project Presentation 2025** (₹15,000 seed fund)
- Winner – **Hackathon & Ideation Competitions (3x)** (₹16,000 + certificates & shield)

EXPERIENCE

Orion-Innovation- Data Analytics & Full Stack Intern   **Jan 2024-Feb 2024**

- Worked with real-world data and Architected an interactive data analysis website for an Australian Football League, improving performance analysis accuracy by 20%.
- Enhanced system integration between backend APIs and frontend UI, improving team productivity by 40% and Gained hands-on experience in application engineering, deployment, and debugging workflows.

VOLUNTEERING AND MEMBERSHIP

- IEEE Technical Lead, PR, Designer at KPRIET SB BRANCH | CPC Member (2024-present) | Rotaract Club (22-23)

CERTIFICATIONS

Crash Course on Python – Google | AI For Everyone -Deeplearning.ai | AWS Academy – ML Foundation | Oracle Certified