Prakashraj Nehrudass

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EDUCATION

University of Southern California — Los Angeles, California
Master of Science in Computer Science(AI) — *Aug 2023 – May 2025*

Easwari Engineering College (Anna University) — Chennai, India
Bachelor of Engineering in Computer Science — *Aug 2019 – Apr 2023*

TECHNICAL SKILLS

Languages: Python, R, Java, JavaScript, C, C++, HTML/CSS, Swift, Go.
Frameworks and Libraries: Tensorflow, Pytorch, Keras, JAX, CuDNN, Django, Flask, React native, React JS.
Developer Tools: Git, Docker,Kubernetes, Jenkins, Google Cloud Platform, Azure, AWS, MATLAB, Opengl.
Database: MYSQL, MongoDB, Google BigQuery, Apache Spark, Apache NiFi.

EXPERIENCE

AI Engineer | Radical AI — May 2024 – Present
Internship — *New York city, New York*

- Building a Gen AI web application using React.js and Python to address user queries from YouTube videos.
- Developing an ML pipeline to extract and process YouTube video content using Langchain, transforming it into vector embeddings with advanced text embedding models.
- Implementing a RAG system by applying similarity search on vector embeddings using user prompts, then refining responses via the GPT model.

Data Scientist | IBM iX — Aug. 2022 – Nov. 2022
Apprenticeship — *Chennai, India*

- Collaborated with the marketing team to analyze a dataset of user reviews on the UI/UX of IBM iX products. The survey involved Hundred Thousand participants and Twenty different UI/UX designs.
- Utilized Python for statistical analysis and Power BI for data visualization, uncovering insights to inform future business strategies.
- Developed a recommendation model using Random Forest to suggest optimal UI/UX designs for clients based on specific use cases, and deployed the solution efficiently on Google Cloud Platform.

ML Engineer | CodingZen — June 2021 – Aug. 2021
Internship — *Delhi, India*

- Developed an AI-integrated application for kindergarten students, utilizing computer vision and natural language processing to create an interactive digital assistant capable of vision and speech.
- Gained practical skills in integration, infrastructure management, and implementation during the development of real-world projects.

PROJECTS

Amingo - AI Rough Note | *Kotlin, Swift, Python, RAG, LLM Gemini API, Docker*

- Developed an AI mobile app for Android/iOS to retrieve text and handwritten staff notes, generating comprehensive notes and practice questions.
- Utilized RAG for information retrieval and LLM Gemini API with Python for accurate note and question creation, enhancing educational resources and improving student learning

Sandy - AI Costume Designer | *React.js, Django, Python, PyTorch, OpenCV, MongoDB, Azure*

- Developed an AI web application to suggest outfits based on user-uploaded photos and specified occasions, integrating PyTorch for image recognition and GPT for text understanding.
- Implemented a RESTful API with Django, stored data in MongoDB, and deployed on Azure for scalability and reliability. Utilized real-time data updates to continuously refine recommendation algorithms.