

Harsh Raj A

Data Scientist

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TECHNICAL SKILLS

- **Languages:** Kotlin, Java, Python, C/C++, SQL (PL-SQL, MySQL), JavaScript, HTML, XML, CSS
- **Frameworks:** Flask, Django, Bootstrap
- **DevOps and API Tools:** Git, Docker, Postman
- **Cloud and Security Tools:** Linux (Configuring and Managing)
- **Specialization:** Machine learning, Deep Learning, Large Language Models, Natural Language Processing, Image Processing

EXPERIENCE

Android & Web Developer | Self Employed

August 2022 – Present

- **Engineered** an Android application for a barber shop, focusing on financial management and billing.
- **Executed** features to streamline employee scheduling, aiming to reduce administrative time by 25% and improve staff productivity.
- **Improved** the booking system to aim for a 30% reduction in wait times, resulting in improved customer satisfaction and retention.
- **Collaborated** with a local taxi service to develop a web application, aiming to streamline the booking process and increase daily trips by 10%.

EDUCATION

Vellore Institute of Technology, Vellore

M.Tech (Integrated), Computer Science (Data Science specialization) | GPA: 9.0 | March 2027

PROJECTS

Leo Call Taxi Website | Django, HTML, CSS, SQL

March 2024

- **Designed and developed** an interactive website for a local cab company using Django to convert 80 to 100% customers to online mode.
- **Incorporated** a user-friendly booking system, aimed at a 40% increase in online bookings within the first month of launch
- **Optimized** website performance and responsiveness, leading to a 20% reduction in bounce rate.

GeoLocator Application | Python, Kotlin, XML, Android Studio

March 2023

- **Engineered** a geotagging-based application, pioneering its creation for research purposes and contributing expertise to both front-end and back-end development.
- **Enhanced** location accuracy by 25% compared to existing solutions through algorithm optimization.
- **Revolutionized** the operational workflow by transitioning from a manual system to a digital platform, reducing work time by approximately 75%, thereby substantially boosting operational efficiency.

E-tutor AI Website | Django, Google Colab, Gemini API, TensorFlow, Python

March 2024 – Present

- **Leading** the development of E-Tutor, a website leveraging deepfake technology to enhance teacher efficiency in generating educational content from PowerPoint presentations, resulting in a 50% time saving.
- **Utilizing** Large Language Models (LLMs) for doubt-solving, contributing to a 10% increase in efficiency.
- **Implementing** an AI-driven recommendation system to personalize learning experiences for students, leading to an increase in user engagement.

Brain Tumor Detection | TensorFlow, Google Colab, Jupyter Notebook

March 2024

- Developed a brain tumor detection model using TensorFlow, leveraging Variational Autoencoder (VAE) within a Generative Adversarial Network (GAN) framework to process MRI and CT images, effectively expanding the dataset.
- Implemented VAE for Reversible GAN to convert MRI and CT images, scaling the dataset from 3600 discrete images to 7400 paired images, resulting in a 200% increase in data diversity.
- Achieved a 2 to 3% enhancement across all evaluation metrics, including sensitivity, specificity, and accuracy, subsequent to the augmentation of the dataset with 3600 additional images.

COURSES AND CERTIFICATIONS

Advanced Learning Algorithm | DeepLearning.AI

Supervised Machine Learning: Regression and Classification | DeepLearning.AI

SQL (Intermediate) | HackerRank

LANGUAGE

Hindi	Native speaker
Tamil	Native speaker
English	Professional proficiency

EXTRA-CURRICULAR ACTIVITIES

Smart India Hackathon		Qualified Internal Hackathon
HackBattle (IEEE-CS)		Finalist
Karate		Black Belt