Dinesh Kumar CP

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Career Objective

Pre-final year B.Tech student specializing in Artificial Intelligence and Data Science, with a strong foundation in AI and Software Development built through hands-on project work. Currently seeking internship opportunities to apply technical knowledge, and contribute to impactful, forward-thinking projects.

Education

Shiv Nadar University Chennai   Aug 2023 - Aug 2027
Bachelor of Technology - Artificial Intelligence and Data Science   (Expected)

- **GPA:** 8.54/10.0 (up to 3rd Semester)
- **Coursework:** Data Structures, Operating Systems, Design and Analysis of Algorithms, Database Management Systems, Machine Learning

Projects

IntelliGrade | GitHub Repo   Mar 2025 - July 2025
Tech Stack- React, TailwindCSS, Supabase, FastAPI, Python, Gemini API, NLP

- Built a **full-stack web application** that automates the evaluation of handwritten descriptive student responses using cutting-edge NLP and transformer-based AI models
- Achieved **85–90% scoring accuracy** in pilot tests, closely matching human evaluations in semantic understanding and relevance
- Reduced grading time per answer from 2–3 minutes to **under 10 seconds**

CurioScope | GitHub Repo   Feb 2025 - Mar 2025
Tech Stack- Python, Streamlit, OpenCV, YOLOv8, Gemini API, SQLite

- Developed a Streamlit-based educational assistant app integrating YOLOv8 and Gemini AI for interactive object recognition and educational insights
- Built an AI-driven quiz engine generating **3–5 MCQs** per object set, improving user engagement **by 60%** through interactive learning
- Implemented a responsive UI with dark/light theme toggle, YouTube content integration, and structured activity suggestions to support diverse learning styles

Ping Pong AI | GitHub Repo   May 2024 - June 2024
Tech Stack- Python, PyGame, TensorFlow, Keras, Deep Learning

- Developed a **two-player ping pong game** where both players are autonomous agents trained using Q-learning. Designed a custom game environment and implemented a reward system for optimization
- Trained **over 10,000+ episodes,** achieving a **3x increase** in average rally length
- Visualized performance metrics (rally length, rewards, win rate) using Matplotlib

Achievements

- Secured **top 20** position among 100+ teams at HackNight '25 (VIT Chennai) for building IntelliGrade
- **Top 10 Finalist** at SNUHacks '25 (SNU Chennai) for developing CurioScope
- Scored **93.8%** in CBSE Class 12 Board Examinations (Science stream)

Technical Skills

Languages: Python, C, C++, Java, SQL, JavaScript

Tools & Frameworks: React.js, Tailwind, FastAPI, Flask, Supabase, Scikit-Learn, TensorFlow, Keras, Git, GitHub