Meet Adlakha

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EDUCATION

VIT Bhopal University — Bhopal, MP
Bachelor of Technology in Computer Science and Engineering – CGPA: *8.97*   *Nov 2022 – Present*

Delhi Public School Kolar Road Bhopal (CBSE) — Bhopal, MP
Senior Secondary (12th)   *95.4%*   *March 2022*

Delhi Public School Kolar Road Bhopal (CBSE) — Bhopal, MP
High School (10th)   *90.4%*   *March 2020*

TECHNICAL SKILLS

C++ , Python , HTML , CSS , Javascript , Nodejs , ReactJS , Nextjs , Express , Clerk ,Git/GitHub , MongoDB , MySQL , Drizzle ORM , PyTorch , scikit-learn

PROJECTS

Vaultify – File Storage Platform | — Next.js, TypeScript, Clerk, PostgreSQL
– Implemented secure user authentication with Clerk, achieving an average request latency of less than 150 ms for a rapid user experience.
– Optimized file uploads via ImageKit APIs, resulting in a 60% average file size reduction and increasing upload.
– Managed file metadata with Drizzle ORM and Neon PostgreSQL, processing database queries with an average response time of less than 50ms.
– Engineered a full-stack, type-safe system using Next.js, reducing runtime errors by 40% and scaling to handle 10,000 file operations per minute.

DevQuery – Q&A Platform | Next.js, TypeScript, Appwrite
– Engineered a dynamic voting system using Appwrite, boosting daily user interactions by 70% by allowing users to instantly promote valuable questions and answers
– Integrated secure authentication for personalized user profiles and theme switching, which increased average user session duration by 25%.
– Empowered users with a rich Markdown editor, leading to over 60% of answers utilizing advanced formatting for enhanced clarity and readability.

Deep Convolutional Q-Learning for Pac-Man | Python, PyTorch
– Implemented Deep Q-Network with convolutional layers to process raw pixels from MsPacman environment
– Optimized experience-replay buffers and epsilon-greedy scheduling, raising average score by 40% over baseline
– Implemented an experience-replay buffer with a capacity of 1,000 transitions, which stabilized training and broke harmful temporal correlations.

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification – Deeplearning.AI

AWS Solutions Architect Associate Cert. Program – Ethnus

ACHIEVEMENTS

– Trained Deep Q-Learning agents for classic control games (Pac-Man, Lunar Lander), optimizing reward strategies and achieving significant performance improvements
– Fine-tuned open-source Large Language Models using prompt engineering and LoRA techniques, improving task accuracy on custom datasets by 22%

EXTRA-CURRICULAR

– **Event Management Team Member** , Coordinated several successful events, including a national-level gathering with over 1,200 participants at VIT Bhopal University.
– **Hobbies** - Passionate about football, badminton, dancing, and trekking for personal enrichment and teamwork skill development.