Karthik K P

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Github LinkedIn LeetCode

Education

•KLE Technological University, Hubballi *2022-2026*

B.E. in Computer Science and Engineering CGPA: 9.00 (till 6th sem)

• National PU College ,Vijayanagar *2020-2022*

PCMB(Class XII) Percentage : 95.8%

•Deepayan English Medium School *2020*

SSLC (Class X) Percentage : 95.2%

Personal Projects

•Blockchain-Powered Decentralized DNS for Enhanced Security

Implemented a decentralized alternative to traditional DNS, removing single points of failure and preventing censorship.

– Developed and deployed smart contracts on Ethereum (Sepolia testnet) using Solidity, Remix IDE, and MetaMask.
– Implemented keccak256 hashing for tamper-proof domain mappings and validation mechanisms.
– Designed and tested domain resolution smart contracts, ensuring secure mapping of domain names to IP addresses.
– Integrated a secure ownership transfer mechanism, allowing only domain owners to transfer domains ownership.
– Analyzed blockchain performance, comparing gas costs and execution times for different DNS operations.
– Technologies: Solidity, Ethereum (Sepolia Testnet), Remix IDE, MetaMask, Keccak256 Hashing, Etherscan.

•Semantic-Preserving Photo-to-Cartoon Translation using CartoonGAN

Developed a deep learning model using GAN for photo cartoonization with semantic preservation.

– Implemented an enhanced CartoonGAN with encoder–residual–decoder generator and CNN-based discriminator.
– Preprocessed datasets with image validation, resizing, normalization, and smoothed cartoon generation.
– Incorporated VGG-16 based content loss and adversarial loss to balance structural preservation and stylization.
– Achieved SSIM of 0.6576 and LPIPS score of 0.2314, demonstrating semantic consistency and stylistic quality.
– Technologies: Python, PyTorch, GANs, CartoonGAN, VGG-16.View paper on GitHub

•Placement Preparation Platform(Ace-The-Interview)

Developed a full-stack web platform for aptitude, coding, and interview preparation.

– Designed and built an interactive platform to assist students in coding, aptitude, and interview preparation.
– Implemented secure authentication and a responsive UI for an enhanced user experience. View Source on GitHub
– Technologies: MERN Stack (MongoDB, Express.js, Node.js), JavaScript, HTML, and CSS.

Technical Skills

Languages: C, C++, Python
Databases: SQL (Relational Database)
Soft Skills: Self-learning, Adaptability, problem solving
Core subjects: Computer Networks, Operating Systems, Object Oriented Programming, Database Management System,Foundational Data Structures & Algorithms

Certifications

•Problem Solving in C (Basic) HackerRank *View Certificate*

•Python (Basic) HackerRank *View Certificate*

•SQL (Basic) HackerRank *View Certificate*

Achievements

•Research Publication at INCOFT, Pune

Presented research paper on **Poetry Generation using Transformer-Based Model (GPT-Neo)** at INCOFT, Pune (2025). *View Certificate*

•Research Publication at 6th Congress on Intelligent Systems , New Delhi

Presented Paper of **Semenatic -preserving Photo-to Cartoon Translation Using CartoonGan**.

View Certificate