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# PRASHANT VASUDEVAN | AI/ML ENTHUSIAST

📍 Kalyan, Mumbai

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## PROFILE SUMMARY

As a graduating Computer Science student, I excel in crafting robust neural networks for vast datasets with diverse learning methods. My expertise spans fine-tuning, hyperparameter optimization, and deploying advanced models, especially in computer vision for edge devices. I optimize code efficiently, possess full-stack development skills, and DevOps proficiency for seamless CI/CD pipelines. My approach blends problem-solving, collaboration, and creative adaptability. Crucially, my insatiable curiosity and passion for learning drive me to constantly embrace and master new technologies.

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## CORE COMPETENCIES

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| ✓ Python                                  | ✓ Docker and docker-compose.yml           |
| ✓ FastAPI ASGI Server                     | ✓ Cloud Deployment(AWS,Azure,GoogleCloud) |
| ✓ ML Frameworks (PyTorch,Tensorflow,onnx) | ✓ DevOps tools (Jenkins, Jira, Selenium)  |
| ✓ Computer Vision Framework (OpenCV)      | ✓ Linux OS (Ubuntu, Kali Linux, Debian)   |
| ✓ Git and Github action (CI/CD)           | ✓ Data Visualization (PowerBI/Excel)      |

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## RELEVANT PROJECTS

### CodeGen: SLM (Small Language Model) Driven Coding (June 2023 - Ongoing)

Enhancing the replitv3 3B language model's code generation by ongoing diverse language training, employing fine-tuning for accurate pattern prediction in coding paradigms.

- Tools: FastAPI, Docker (with watchtower enabled), GitHub Actions, React JS, HTML, CSS, Vanilla JS, Redis.
- Technologies: OAuth, JWT, Google Sign-In
- Machine Learning Models: Replitv3 3B (3B parameter Causal Language Model focused on Code Instruction, employing ggml quantization for faster inference)

### Collabstr Clone (May 2023 - June 2023)

The platform based on influencer marketing where brand find their desired niches and bid on the influencer.

- Tools: Utilized FastAPI (for server), ReactJS (frontend), Docker, SMTP Server (for OTP)
- Technologies: JWT, OAuth, Google Sign in, Location API.

### PicAI (Jan 2023 - May 2023)

Created a GAN-powered web app for image manipulation integrating ModNet, GFPGAN, RealESRGAN, Anime, and Arcane filters for effective style transfer and enhancement.

- Tools: Utilized FastAPI, HTML, CSS, Vanilla JavaScript, Nginx, Docker, Certbot.
- Technologies: Employed PyTorch, ONNX.
- Machine Learning Models: Included MODNet, GFPGAN, RealESRGAN, AnimeGanV2, Arcane Filter.

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## EDUCATION

**2021 - 2024 | Kishinchand Chellaram College, HSNL University**

B.Sc Computer Science

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