CHARUDATTA GURUDAS KORDE

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ABOUT ME

I currently work as a research scholar at NIT Goa. In my role, I have served as a teaching assistant, overseeing final-year bachelor's and master's students in their lab work and projects. Through my research experience, I have cultivated a penchant for innovative and independent thinking. My areas of interest span across artificial intelligence, machine learning, hardware accelerators, image processing, web design, cryptography, network security, blockchain, and Web 3.

EXPERIENCE

Freelancer, GITHUB — *2015, remote

- FPGA based SVM implementation.
- FPGA based perceptron network implementation.
- Creating automation scripts for windows pc with powershell.

Technologies used: MATLAB, Powershell, Python, Vscode, Jupyter.

Software Validation Engineer, Intel — 2019-2020, Bangalore

- Validating tool flow for Quartus 19.3 through 20.1.
- Validating tool processes on Quartus like synthesis, implementation, and bit stream generation.
- Validating design flows for Qurtus tool including top-down, bottom-up, and hierarchical approaches of FPGA design.

Technologies used: Quartus, Verilog, Perl, Python .

EDUCATION

Qualification	Year of passing	Percentage	Board/University	Specialization	Institute Name
SSC	2019	69	Goa Board	Science	Dr. K.B. Hedgewar
HSSC	2011	71	Goa Board	Science	Santacruz Higher Secondary
Bachelors in Engineering	2015	76	Goa University	Electrical and Electronics Engineering	Goa College of Engineering
Masters in Engineering	2017	81	Goa University	Microelectronics Engineering	Goa college of Engineering
PhD	*2024	86	NIT Goa	VLSI	National Institute of Technology Goa

CURRENT PROJECTS

GenAi

- Built a Generative AI PyTorch tensor model aggregator project.
- Project include GAN, VanillaGAN, ConditionalGAN, DCGAN, WGAN.
- GenAiTamago is used to trace signal, and generate handwritten digits with given prompts.

readme-generator

- Built a readme generator for github repo using python and jinja2.
- readme-generator has hero svg, dependency badges, status dynamic badges auto generated.

TOOLS & SKILLS

- Programming: Python, Verilog, Latex.
- Deep learning tools: PyTorch, Tensorflow, keras,
- Deep learning models: GAN, CGAN, WGAN, DCGAN.
- Machine learning: genetic algorithm, wavelet transform, MFDFA.
- Artificial intelligence: ollama, lamma3, gemma.

REFERENCES

- Dr. M.H. Vasantha | Associate professor, Dept. of ECE, NIT Goa | vasanthmh@nitgoa.ac.in
- Dr. Y.B.Nithin Kumar | Associate professor, Dept. of ECE, NIT Goa | nithin.shastri@gmail.com