PRABHU KIRAN KONDA

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Education

SR University	**Sep. 2020 – May 2023**
Bachelor of Technology in Electrical and Electronics Engineering	*Warangal, Telangana, India*

Relevant Coursework

- Object Oriented Programming using Java
- Artificial Intelligence
- Machine Learning
- Neural Networks and Deep Learning
- Natural Language Processing

Projects

AI-SaaS | *SvelteKit, TailwindCSS, PostgreSQL, Stripe, Docker, TypeScript*   🔗 *live* | ⚙ *source*

- Built an AI-SaaS platform with SvelteKit and TailwindCSS, leveraging PostgreSQL for data storage.
- Ensured secure user authentication with OAuth (Google and GitHub) and integrated Cloudinary for seamless file uploads.
- Implemented various AI services, including ChatGPT, Image/Audio Generation, and Restoration, using OpenAI and Replicate APIs.
- Enabled subscription-based access to services by integrating Stripe for seamless and secure payment processing. Utilized Docker for efficient deployment on fly.io VPS.

Personal Portfolio + Markdown Blog | *SvelteKit, TailwindCSS, TypeScript, Vercel*   🔗 *live* | ⚙ *source*

- Created a personal website for myself along with Markdown based blog which allows to write long content easily.
- Styled using TailwindCSS, Shadcn UI Components and deployed to vercel.
- Integrated Giscus, a commenting system based on GitHub discussions to allow users to comment on my blogs to share feedback.
- Ported to SvelteKit from React and NextJS due to the fact that, SvelteKit is super fast, minimal and ships less JavaScript to the browser making the websites load faster. Link to React version: Click here

GFPGAN Image Restoration | *Python, Streamlit, Docker, HuggingFace*   🔗 *live* | ⚙ *source*

- Developed a Streamlit based python application to Implement Image Restoration using GFPGAN, A Generative Adversarial Neural Network by TencentARC.
- Deployed to Huggingface spaces using Docker for seamless deployment and avoiding dependecy issues.

STLF using Auto Encoders + RBF NN | *Python, Tensorflow, Streamlit*   🔗 *live* | ⚙ *source*

- Developed a Deep Learning model to forecast load (Short Term load forecasting AKA, STLF) on electrical substation using Auto Encoders & Radial Basis Function Neural Networks.
- The model was developed using Tensorflow and Scikit-Learn and also integrated Weights & Biases or W&B, a developers tool for Machine Learning to track the models, its performance, hyperparameteres etc.
- Used Auto Encoders to perform Dimensionality Reduction of the Data and RBF NNs to get predictions.
- Built a strealmit application for Model Inference and also published a research paper (Springer) on the same. Research Paper

Technical Skills

Languages: Python, Java, JavaScript, TypeScript
Developer Tools: Git, GitHub, VS Code, PyCharm, Docker, Postman
Web Development: ReactJS, NextJS, SvelteKit, TailwindCSS, HTML/CSS
Databases: PostgreSQL, MySQL, MongoDB
Machine Learning/Frameworks: Tensorflow, PyTorch, Scikit-Learn, Streamlit, FastAPI

Publications

- **A Platform Independent Web-Application for Short-Term Electric Power Load Forecasting on a 33/11 kV Substation Using Regression Model**, Advances in Electrical & Electronics Engineering, Paper Link

- **Weather Forecasting Using Radial Basis Function Neural Network in Warangal, India**, MDPI Urban Science, Paper Link

- **Active Power Load Data Dimensionality Reduction Using Autoencoder**, Springer, Paper Link