Punith AJ

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Summary:

1+ year of experience in software engineering and data science, I've developed a web application integrating AI, yielding a notable 40% productivity boost. My expertise includes advanced models for semantic segmentation, object detection, and defect analysis in electric power systems. Proficient in ReactJS, Django, and ML algorithms, I consistently deliver exceptional outcomes in these domains.

WORK EXPERIENCE

Compviz Technologies Private Limited • Bengaluru, Karnataka, India • 12/2022 - Present
Software Engineer

- Directed the end-to-end development of a robust web application tailored for precise defect analysis within electrical power lines and tower components. Leveraged ReactJS for the frontend and Django for the backend to ensure seamless operation and scalable architecture.
- Engineered advanced AI models incorporating YOLO, Detectron, and YOLO OBB targeting thermal image analysis, alongside UNet for semantic segmentation, targeting conductor wire analysis. This integration significantly improved analysis efficiency and accuracy, leading to a notable boost in daily productivity.
- Integrated Apache Superset into the web application for Feeder analytics dashboard and power supply optimization, providing comprehensive insights and enhancing operational efficiency by 30%.
- Developed a React Native mobile application for electric meter replacements, streamlining technician operations in the field. This innovation led to a significant reduction in manual errors and paperwork, while also increasing daily replacements by 20%.

iNeuron.ai • Bengaluru, Karnataka, India · Remote • 11/2021 - 11/2022
Data Science Intern

- Developed Semantic segmentation Model for Detection of Elements(water, land, rock, Tree etc...) in Satellite Images. using U-net Architecture and ResNet34 as backbone

EDUCATION

Master of Technology - MTech in Digital communication
RV College Of Engineering • GPA: 8.05 • 08/2019 - 05/2021

Bachelor of Engineering - BE in Electrical, Electronics and Communications Engineering
NIE Institute of Technology, Mysore • 06/2015 - 05/2019

CERTIFICATIONS

Full Stack Data Science • 11/2021 - 09/2022
iNeuron

SKILLS

Bootstrap, Cascading Style Sheets (CSS), CCNA, Computer Vision, Deep Learning, Django, Django REST Framework, HTML, JavaScript, jQuery, Machine Learning, Natural Language Processing (NLP), NumPy, OpenCV, pandas, Python, React.js, React Native, SQL