

Sanket Magodia

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🔗 sanketmagodia.info

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, SQL(Postgres), HTML/CSS
Frameworks: Pytorch, Tensorflow, React, Django, Flask, FastAPI
Developer Tools: Docker, AWS EC2, AWS Sagemaker, Git, GitHub Actions

EXPERIENCE

Binghamton University

Machine Learning Research Assistant

Binghamton, NY

May 2023 – Present

- **Research work** - Conducted extensive research on GANs, DCGANs, and WGAN through literature review and paper analysis, while also presenting findings on the application of GANs to impute missing data, contributing to the department's understanding and advancement in the field
- **Finance Manager Application** - Directed the development of a full-stack client-server application using Python, FastAPI, Docker, and MongoDB, creating an innovative speech-based feature using the Nous Hermes 2 LLM model for recording daily finances, providing future predictions, and delivering personalized financial advice

WonderBiz Technologies Private Limited

Software Engineer

Mumbai, India

Nov 2021 – May 2022

- **Innovative Price Estimation** - Enacted a Named Entity Recognition model, OCR, and Adaboost regressor to streamline PLC plant price estimation process, achieving a 70% reduction in time and effort
- **Enhanced Efficacy** - Significantly improved the custom Mask-RCNN model for extracting lines and diagrams from Piping and Instrumentation Diagrams(P&ID), boosting accuracy and efficiency by 15%
- **Quality Assurance with Object Detection** - Implemented an Object Detection model on Raspberry Pi for automated casting defects detection, achieving a 78% accuracy rate, while also developing a React website with a dashboard for real-time defect monitoring and detailed report generation for each cast

Globalshala Private Limited

Data Analyst Intern

Mumbai, India

Aug 2020 – Nov 2021

- **Advanced Analytics and Insights Development** - Utilized Decision Tree and K-means Clustering to uncover underperforming ads, while also crafting Power BI dashboards for monitoring KPIs and delivering insights
- **Segmentation Analysis for Targeted Campaigns** - Conducted segmentation analysis to pinpoint audience segments and optimize ad targeting, leading to substantial cost savings of over \$10000
- **Enhanced Data Presentation** - Utilized Heatmaps and Geospatial Visualization techniques to present findings, enhancing data comprehension

EDUCATION

State University of New York at Binghamton

Master of Science in Computer Science, Concentration in A.I., (CGPA 3.53/4.00)

Binghamton, NY

Aug 2022 – Aug 2024

PROJECTS

Generative Wallpaper Generator | *Python, PyTorch, WGAN, Computer Vision, Neural Networks*

- Innovated a personalized 4K wallpaper generation platform using Wasserstein Generative Adversarial Networks (WGANs) and Streamlit to create high-quality, captivating images
- Initiated the project by generating realistic Pokémon images, then expanded to a broader range of generative art, showcasing the versatility of GANs

JobSetu - Finalists Smart India Hackathon, 2020-21 | *Python, React, Tesseract Api*

- Engineered an OCR-based solution using React, Python and Tesseract API for the Govt. of Uttarakhand, India, seamless listing of job opportunities on a portal from PDF and Doc files, improving the job posting process by 40%
- Refined recommending algorithms in Python to match jobs seekers to relevant job openings and manage the entire job seeker lifecycle, from search to hire, which reduces the administrative workload by 50%