Amogh Warkhandkar

M.Sc. Data Science @ RWTH Aachen University

⊙ Aachen

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🔗 Portfolio

Experience

Jul 2021 - Jun 2022

Tata Consultancy Services
Software Developer
Mumbai, Maharashtra, India

- Developed web and mobile applications using modular and reusable components to simplify development and implemented unit tests for reliability.

- Responsible for codebase management, handling bug fixes, documentation, and performance optimizations to meet project objectives.

- Technologies: React, React Native, Expo, JavaScript

Education

Oct 2022 - Present

RWTH Aachen University
Master's degree, Data Science
Grade: 2,4

Jul 2017 - Jun 2021

University of Mumbai
Bachelor's degree, Information Technology
Grade: 1,5 (8.82/10.0)

Skills

Communication
English, German (A1), Marathi, Hindi

Programming
Python, C++, JavaScript, Linux, Vim

Data Science & AI
NumPy, Pandas, Matplotlib, TensorFlow, PyTorch, OpenCV

Web Development
React.js, Node.js, Three.js, Tailwind CSS

Publications

Apr 2021

LiveStyle - An Application to Transfer Artistic Styles
🔗 https://arxiv.org/abs/2105.00865

Developed an application enabling high-quality artistic image generation through Style Transfer Techniques, utilizing VGG19, Inceptionv3 + MobileNet-v2, and CycleGAN Neural Networks.

Jun 2020   **Measuring Performance of Generative Adversarial Networks on Devanagari Script**

🔗 https://arxiv.org/abs/2007.06710

Showcased the effectiveness of Generative Adversarial Networks with real-life datasets by creating Devanagari script characters and applying Gaussian Blur, Otsu's Thresholding, and morphological operations for character processing.

Projects

COVIDian

COVID Tweet Sentiment Visualizer and Analyser with Live Tweet extraction, Region-wise Sentiment breakdown, and Machine Learning models deployed on AWS EC2.

🔗 https://github.com/amogh-w/COVIDian

Technologies: Docker, Amazon Web Services, CircleCI, TensorFlow, Scikit Learn, React, Node, MongoDB, GraphQL

Digital Wellbeing

Personal Mood Detector and Mental Health Assistant with multi-device support, including Raspberry Pi with camera.

🔗 https://github.com/amogh-w/IOT-Digital-Wellbeing

Technologies: Raspberry Pi, TensorFlow, React, Node, Firebase, MongoDB, GraphQL

COCO Object Detector

Used COCO Single Shot MultiBox Detection pre-trained model to detect objects via Webcam or video source.

🔗 https://github.com/amogh-w/React-Tensorflow-Object-Detection

Technologies: TensorFlow, React, Node

OCR Magic

Utilized optical character recognition to extract document information with database integration.

🔗 https://github.com/amogh-w/Hackathon-OCR-Magic

Technologies: Tesseract, React, Node, Firebase, MongoDB, GraphQL

Paws

Pet Welfare Management System designed to efficiently manage veterinary appointments and pet information.

🔗 https://github.com/amogh-w/Paws

Technologies: React, Node, MongoDB, GraphQL

Awards

Feb 2020   **TCS CodeVita Season 9**
TCS
Round 1: All-India Rank 7487, Round 2: All-India Rank 128, Top 7% of qualified candidates.