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Aniruddha Kalkar

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Highly Driven Engineer with interests in machine learning, Natural Language Processing, Computer Vision, Augmented Reality, Continuous Delivery and artificial intelligence..

Experience

Natural Language Processing Intern **Nov 2021- Dec 2021**
Textify AI Remote

- Optimized generative pre-training (GPT-NEO) NLP model to auto-generate Natural language content for academic research proposals.
- Developed synonym suggestion enhancements for a NLP product , a key feature to improve it competitiveness

Software Engineering Specialist **June 2019-Jul 2021**
Dassault Systemes Solutions Lab Pune, India

- Designed Revamped UI / UX for the Service Lifecycle Management Service in the CI / CD Pipeline for the *3DEXPERIENCE* platform.
- Developed UI / UX for the CI / CD Pipeline for the *3DEXPERIENCE* platform.
- Designed a prototype using NLP and Machine Learning to recommend QA testing scenarios using software requirements specification documents.
- Promoted to Software Engineering Specialist from R & D Development Associate position.

Research Intern **Dec 2018-Apr 2019**
Tata Consultancy Services Research and Innovation New Delhi, India

- Analyzed Saliency driven label placement, Object Detection and Tracking in videos.
- Developed *"SmartOverlays"*, a project in Computer Vision, Deep Learning and AR.

Publications

- **SmartOverlays: A Visual Saliency Driven Label Placement for Intelligent Human-Computer Interfaces**
  IEEE Winter Conference on Applications of Computer Vision (WACV).
  Authors: Srinidhi Hegde, Jitendra Maurya, Aniruddha Kalkar, Ramya Hebbalaguppe

Projects

UI Template Image to Code Generation, **Aug 2018-Apr 2019**

- Constructed a template UI code generating system from input screenshots or photos of GUIs
- Leveraged Convolutional Neural Networks and Recurrent Neural Networks With LSTM.

Face sketch To Photo-Realistic Image Generation, **Jan 2018-Jun 2018**

- Development of a prototype photo-realistic images creating system from hand-drawn face sketches, enhanced poorly lit images and predicted age groups of people from sketches
- Utilized Generative Adversarial Networks

Toxic Comment Classification , **Jan 2018-Feb 2018**

- Analysis and Classification of social media comments into 6 different levels of toxicity
- Applied Recurrent Neural Networks to classify Word embeddings from social media comments .

Driver Distraction Detection, **Aug 2017-Dec 2017**

- Designed and created a driver distraction recognition and notification program based on a live video capture
- Applied Convolutional Neural Networks to classify 10 pre-determined distractions.

Education

Master of Science, Computer Science (Artificial Intelligence), University of Southern California **Aug 2021-May 2023**
GPA: 3.3 / 4.0
Bachelor of Technology, Computer Science and Engineering, Walchand College of Engineering **Aug 2015-May 2019**
GPA: 8.79 / 10.00

Technical Skills

Languages	Python, javascript, C/C++, Java, ASP.Net, HTML
Libraries & Frameworks	TensorFlow, Pytorch, TFLearn, OpenCV, Keras, pymongo, NLTK, scikit-learn, matplotlib, Flask, Django
Databases	MySQL, MongoDB
Others	CSS, Computer Vision, Natural Language Processing, Data Visualization