Sushanti Kerani

Personal Data

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Work Experience

Aug 2021-Present | **Yellow.ai, https://yellow.ai/**
Software Developer Engineer 1

Yellow AI is a leading conversation AI platform in the CX space. As part of Yellow.ai, I work as part of the central AI(NLP) team. Having worked on multiple customer centric projects, over the span of 1 year, I've worked primarily on nlp, data science, neural networks and a bunch of backend and databases. My key projects being: managing all incoming messages and queries, similarity search based on embeddings, pipelines for analysing months of data and identifying key problems, language identification, clustering based solutions for customer data for them to be able to identify key issues in the system, integrating mlops into our system for streamlining data and management, working on identifying chat flows, implicit feedback from customer data and entity recognition in text.

June 2020 - July 2021 | **Dragonfruit.ai, https://dragonfruit.ai/**
Member of Technical Staff

Dragonfruit is a hybrid video analytics company based in California majorly focusing on Video analytics and intelligence serving end-to-end purposes like video investigations, video monitoring and video summary generation amongst a multitude of other modules. At Dragonfruit, I majorly work as part of the AI team dealing with a multiple of Machine learning modules like object detection, person and vehicle detection, counting and indexing, license plate, etc. I also work as part of the backend team using tech stacks like Elasticsearch, Milvus to index and maintain video data pipelines.

Jan-April 2020 | **Redsky Technologies, Bangalore**
Software Engineer Intern

Developed a Pub/Sub messaging system using Nats Streaming Server. Currently working on FastAPI, Django, DjangoRestFramework

May-July 2019 | **Biodesign Innovation Labs, Bangalore**
Computer Vision Intern

Successfully developed a deep learning model (CNN) for the detection of diseases from Chest X-Rays. Implemented a backend application for disease detection and deployed it on AWS to be used by more than 15 hospitals all over India. Developed an algorithm to measure heartbeat from facial blood flow using signal processing.

May-June 2018 | BHEL, *Bangalore*

Skills

Programming: Python, C, C++, shell, linux
AI: Pandas, Spark, Scikit-learn, Tensorflow, Keras
Backend and databases: Django, Flask, FastAPI, Mongodb, Elasticsearch, MySQL, Milvus
CICD: Gitlab, Jenkins, Docker
Others: Git, Postman, VIM, OpenCV

Education

2016-2020	Electrical and Electronics Engineering , **VIT University**, Vellore Achievers awardee by chancellor of VIT CGPA: 8.70/10
2014-2016	Higher Secondary Certificate Telangana State Board PERCENTILE: 95.7
2008-2014	Secondary School Certificate CGPA: 9.8/10

Achievements

WINNER	PayPal hack organized by PayPal in collaboration with W2
ACHIEVERS AWARD	Achievers Award presented by Chancellor of VIT
FIRST PRIZE	Hack Battle held at Vit organized by IEEE-CS
FIRST PRIZE	Prototype ideathon conducted by SHIELD-VIT
TOP THREE	Best business potential award at Devfest, Google Developers Group, India
RUNNER UP	Best Presentation at CodeSpace - Computer Society of India VIT.

Projects

CUTTLE	• www.cuttle.it • Open source tool for Python developers to build and directly deploy their code, convert it into an API and a pipeline.
AUTONOMOUS CAR	• Developed a ground station software in Processing that enabled monitoring of sensor values and car position in real time. • Developed Lane Tracking software to aid car navigation using B-Spline and Haar Cascade algorithms. • Successfully implemented communication between sensor nodes using ROS (Robot Operating System) and Gazebo.
DEEPFAKES	• Worked on MIT developed research work to detect Heart Beat from videos. • It follows an Image Processing plus Signal Processing approach. • I worked on tuning the parameters used in this work to identify AI generated Deepfake videos.
RECOMMENDER	• Developed a recommendation system using Eclat and Apriori algorithm for recommending grocery products to customers.
LICENSE PLATE RECOGNITION	• Developed an end-to-end system low cost system for licence plate detection using a Raspberry Pi camera module to fully automate the process of passing through toll gates. • Using a Raspberry Pi camera module, the image was first segmented later on applying Component Analysis to the image. • Enabled linking of drivers to their monetary dues on the cloud using their Driver's License and OTP based verification.
EMAIL SPAM CLASSIFIER	• Trained a Learning Algorithm to detect spam emails using SVM with a Gaussian kernel to decrease the bias and tried different values of regularization parameter over the CV set to avoid overfitting.
OTHER PROJECTS	Feature detection using OpenCV, Robotic Arm, Face Filter development, Image Stitching (SIFT).

Extracurricular

IEEE	Secretary of Internal Affairs at IEEE VIT student chapter. Managed and coordinated over 75 students in the chapter over a course of three years where I was part of organizing multiple events,workshops, hackathons and project lab sessions.
Creation Labs	A senior member at Creation Labs at VIT specififcally contributing to the Autonomous car project.
Technical member	Part of the technical team at Robovitics club, VIT.
Speaker	Speaker at the DEEP LEARNING workshop organized for around 200 students from all over India organized in collaboration with the Technical Fest at VIT.
Organizer	Part of the organizing team for three hackathons held in VIT for internal and external students.