Vinay Kudari https://vinaykudari.me

SKILLS

• Languages: Python, SQL, Bash, Dart, JavaScript, Java, HTML, CSS

• Web: Django, Flask, Flutter, SQLAlchemy, Pytest

• ML: PyTorch, PySpark, Pandas, NumPy, OpenCV, Matplotlib, Scikit, FastAI

Tools: Docker, Compose, Kubernetes, Redis, Celery, Git, JIRA

Cloud: GCP, Heroku, AWS

EXPERIENCE

• Brave Orbit

Capetown, South Africa Jan. 2020 - Aug. 2021

Full Stack Developer

- o Developed a cross-platform app using BLoC pattern, implemented database, network and state management layers
- o Designed HIPAA compliant scalable async push notification service for medication reminder application
- o Developed a task scheduler for clinical surveys that delivers email and SMS alerts and gathers response on a recurring basis
- o Developed a ERP system, custom features such as multi-product substitutions, combo-products are developed
- Kubernetes CI/CD workflows were setup to automatically test, build and deploy backend services on cloud
- o Developed automated testing pipelines and improved test coverage for both frontend and backend services

• Accenture

Bangalore, India

Sep. 2018 - Dec. 2019

- Big Data Developer
 - o Time series analysis was conducted on drug assay data to identify raw materials that effects the drug quality
 - o Designed parallel ETL data validation pipelines using microservice architecture; Manual testing resources were cut by 70%
 - o PL/SQL procedures were developed to generate parent child hierarchies using temporal drug life cycle data

• Vishakapatnam Port Trust

Visakhapatnam, India

May 2017 - July 2017

Computer Vision Intern

• Extracted frames from surveillance cameras; merged them based on SIFT keypoints and RANSAC; estimated cargo type &

Relevant Projects

Recommender system using graph neural networks

• Implemented inductive matrix completion and LightGCN models; Improved RSME by initializing custom user-item embeddings

Computer vision based vechicle damage detector

• Trained segmentation model using detectron to detect damage; assigned health score based on area of bounding box

Unordered image stitching and deghosting

• Estimated approx overlap area by minimum variance technique on binarized images; stitched images based on binary tree model; removed deghosting from the overlap areas by selecting regions based on minimum local gradients

• Information extraction as seq2seq task

 Transformed labelled structured data into text based on TaggedSpans like format and applied T5 model to generate text and extracted entities using REGEX

• Microservice based deeplearning inference pipeline

• Exposed ResNet model in a docker container; setup automated CI/CD pipeline to build and deploy as serverless REST API

EDUCATION

• University at Buffalo [3.9/4]

Buffalo, NY

Master of Science in Computer Science

Sep. 2021 - Present

• National Institute of Technology, Durgapur [3.3/4]

West Bengal, India

Bachelor of Technology in Computer Science and Engineering

July 2014 - May 2018

Thesis

Gender Classification Using CNN under Dr. Dakshina Ranjan Kisku

o Implemented Gil Levi and Tal Hassner's deep neural network architecture in PyTorch, tweaked the network layout, and evaluated various second-order optimisation techniques