Raghav Sethi

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Self Motivated and Enthusiastic Developer penchant for coding, problem-solving and committed to provide high level solutions that drive business.

EXPERIENCE

GoBOLT, Gurugram— *SDE Backend*

OCT 2021 - PRESENT

TMS : An Application to manage third-party logistics

- ❖ Design and develop new *microservice* as per requirement
- ❖ Adding new features to existing microservices
- ❖ Utilized *Azure Durable Functions* for *serverless* workflow orchestration to coordinate loosely coupled microservices
- ❖ Exposed *REST* APIs with *Google Cloud Endpoints* and *Extensible Service Proxy* for high performance

Prima : An Application to solve Vehicle Routing Planing

- ❖ Design and implementation of *VRP*, *Bin-Packing*, *Google Optimization AI*, *CP-SAT* solver with custom business constraints
- ❖ Scalable, Asynchronous application
- ❖ Fine Tuning VRP model parameters to *reduce model complexity* which resulted in better solutions and reduced solver runtime

IoTIoT.in, Pune— *intern*

FEB 2021 - JUL 2021

Project: 3D Depth Vision

To do Object measurement (in x, y, and z real-world dimensions) and *3D point cloud* generation to capture cartons from pallets with the help of a *stereoscopic camera*.

EDUCATION

I.K. Gujral Punjab Technical University, Kapurthala | *B.Tech*

2017 - Present, Computer Science Engineering, CGPA: 7.85

Blue Bells Model Senior Secondary School, Gurgaon | *Intermediate*

2017, Percentage: 82.75%

Blue Bells Model Senior Secondary School, Gurgaon | *Matriculation*

2015, CGPA: 8.5

SKILL

Python, gRPC, PostgreSQL, GCP, Git, Docker, Kubernetes, KEDA, Azure Durable Functions, Redis, PubSub, OR-Tools, C++, Tensorflow, Pytorch, Keras, OpenCV, Matplotlib, Pandas Numpy, Tableau, Imutils, Dlib, MTCNN, Scikit-learn

CERTIFICATES

Deep Learning Specialization by deeplearning.ai

Machine Learning by Andrew Ng | Stanford University

Machine Learning and AI Workshop | IIT Roorkee

LINKS

Github: /05rs

Linkedin: /sethi-raghav

Hackerrank: /raghav1251999

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PROJECT

SudokuAR

Augmented Reality Sudoku solver, finds Sudoku puzzles in the photo/video and then displays the solution in the original image/video maintaining orientation.

- Can detect multiple Sudoku puzzles, invariant to image lighting and rotation.
- Uses a custom digit recognition CNN pipeline with preprocessing and image augmentation.

Face-Recognition

End to end Face-Recognition implemented the FaceNet paper with Dlib for preprocessing and used a custom semi-hard online triplet generator and loss, for further fine-tuning.

- Got *97% F1 score* & *99.5% accuracy* after *fine-tuning* on LFW sub dataset.