

# PRAKASH S

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## WORK EXPERIENCE

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### GK Fit

Feb 2020 - Aug 2020

#### Tech Lead, Machine Learning

- Led 5-person product development team
- Guided the team through technical issues and challenges
- Served over 1,000 early Beta users by architecting the conversational Chatbot (NLP) for answering customer queries and automated Diet suggestion ML infrastructure.
- Increased the release cycle by 10% by Applying agile methodologies and DevOps automation in the SDLC

### Bigthinx

May 2019 - Jan 2020

#### Software Engineer, Computer Vision

- Achieved 97% accuracy in human body size estimation task with computer vision and Machine Learning algorithms for obesity measurement(BMI)
- Delivered 16% reduction in deep learning server processing time by accelerating cloud GPU
- Deployed a real-time accelerated AI by incorporating Edge inference on the client app
- Researched 3D geometric deep Learning models (experimental) for 3D Human avatar generation task and worked on Texture synthesis solution based on GAN's

### Clothx

Oct 2017 - Mar 2019

#### Software Engineer, Machine Learning & Backend

- Enhanced Customer Experience through developing an In-store live Customer satisfaction analytics system from facial expressions with Integrated IoT solution.
- Implemented Reverse Image Search and Related products suggestion features with deep feature extraction and Machine Learning in e-commerce product listing website.
- Successfully engineered the backend of a SaaS platform from the ground up.

### change workshops

Apr 2017 - Sep 2017

#### Programming Instructor, Robotics

- Coordinated and presented workshops on Python, C, Algorithms and Robotics.
- Conducted the workshops in 3 schools with up to 300 high school students in attendance

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## EDUCATION

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### Anna University

2015 - 2018

#### Bachelor of Engineering(BE), Mechatronics Engineering

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## LINKS

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- Github - <https://github.com/prakashsellathurai>
- LinkedIn - <https://www.linkedin.com/in/prakashsellathurai/>
- Website - <https://www.prakashsellathurai.com/>

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## PROJECTS

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### Fashion Image Recommendation Engine

- GCP Cloud-ready image recommendation system built on top of [Annoy](#). The model trained for similarity retrieval task on Amazon Image recommender dataset.
- Link: <https://github.com/prakashsellathurai/fashion-Image-Recommender>

### Background removal Web App

- Web App that features zoom background removal option built using TensorFlow JS and on model deeplabv3
- Link: <https://github.com/prakashsellathurai/zoom-background-removal-feature>

### Sentiment analyzer Web App

- The web app that predicts whether a sentence makes a positive or negative impact.
- Link: <https://text-sentiment-analysis-app.herokuapp.com/>

### Fast-Sr-GAN

- Fast Super-Resolution Generative Adversarial Neural networks (SR-GAN) implementation in python with inverted residual blocks
- Link: <https://github.com/prakashsellathurai/SRGAN>

### Regressive-doodle

- Interactive Web Demo that predicts the doodle from past strokes through RNN model, inspired by SketchRNN and TensorFlowJS
- Link: <https://prakashsellathurai.github.io/Regressive-doodle/>

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## SKILLS

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- **Programming languages:** Python, R, C++, Java, Nodejs, MatLab, JavaScript
- **Markup languages:** Html, YAML
- **Frameworks & Libraries:** Pytorch, Tensorflow, Keras, Numpy, Sci-kit learn, Pandas, hugging face, CNTK, Flask, Dask, PySpark.ML
- **Cloud & Database:** Mysql, MongoDB, GCP, AWS, Firebase, SageMaker, Cloud ML
- **Domain Skills:** Machine Learning, Deep Learning, NLP, Predictive Modeling, Statistics, Git, Computer Vision., Edge Computing, IoT, Data Analytics, Data Structures, Data Modeling, Regression, Classification, Clustering Models, SDLC, Full-Stack.