Saketh Bachu

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Experience

SimpleWorks Solutions Pvt. Ltd | DEEP LEARNING INTERN
May 2019 – Oct 2019 | Nagpur, India
- Built the **Face-Liveness Detector** using a CNN called the liveness-net.
- Optimized it using facial heuristic movement detection to make the e-kyc application process simpler and more secured.
- The model classified liveness with an accuracy of 90% on the developer set.

IvLabs | MEMBER
July 2019 – Present | VNIT, Nagpur
- Part of the community working on deep learning to solve various real-life scenario problems.
- Developed a deeper understanding on the cutting edge technologies used in deep learning and computer vision and worked on various interesting projects along with other members.

Projects

Covid19-Outbreak and NPI-prediction [code]
May 2020 – June 2020 | VNIT, Nagpur
- Lead the development of **Coronaob.ai**, a machine learning pipeline to predict mitigation measures for a pandemic outbreak.
- It is built with the help of machine learning algorithms and statistical methods. This model helps in forecasting the number of covid19 cases and also predicts mitigation measures to control the outbreak.
- Bagged the third position at the reinventhacks - corona hackathon and also presented the project at **"The international conference on future engineering - 2020"**.

Stair pose estimation using UNET [code]
June 2020 – Present | IvLabs, VNIT
- To build a deep learning pipeline to predict the pose of a staircase using semantic segmentation by estimating the vanishing points on RGB images.
- UNet is being used to accomplish this task and the best F2 score we obtained is 0.72.

Predicting customer churn in banking using ANN [code]
June 2020 – July 2020 | VNIT, Nagpur
- Aimed at predicting the churn rate based on some characteristic properties like previous transactions, age, etc.
- Achieved a test set accuracy of 84.2%.

Bubble sheet scanner using OMR and OpenCV [code]
Aug 2020 – Sept 2020 | VNIT, Nagpur
- Designed an bubble sheet scanner and test grader using OMR for a nation-wide examination.
- It was based on techniques such as contour sorting, perspective transforms, etc.

Education

Visvesvaraya National Institute of Technology, Nagpur
BTECH, METALLURGY AND MATERIALS ENGINEERING
Expected May 2022 | Nagpur, India
CGPA: 8.69 / 10.0 (Until 4th semester)

Sri Chaitanya Group of Institutions
HIGHER SECONDARY SCHOOL
April 2018 | Hyderabad, India
Public examination
Score: 982 / 1000

Bhavan's Sri Rama Krishna Vidyalaya
SECONDARY SCHOOL
May 2016 | Hyderabad, India
Board examination
CGPA: 10.0 / 10.0

Skills

Programming
Python • C/C++ • HTML/CSS • Java

Technology
TensorFlowV2 • PyTorch • Keras
Git/Github • Linux • Firebase
OpenCV

Coursework

Undergraduate
Neural Networks & Deep Learning
Improving Deep Neural Networks
Structuring Machine Learning Projects
Convolutional Neural Networks
Numerical Methods & Computation
Data Structures in C
Mathematics for ML: PCA
Introduction to Linear Algebra
Probabilistic Systems Analysis and
Applied Probability

Links

Github: **sakethbachu**
LinkedIn: **Saketh Bachu**