

SACHIN VERMA

AI Scientist

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Kuala Lumpur, Malaysia

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EXPERIENCE

Deep Learning Engineering

Insuradar

Oct 2019 – Present

Kuala Lumpur, Malaysia

Xtract Autonomous Optical Data Extraction for ICE-AI

- Working to develop an intelligent optical information retrieval suite from digital documents.
- Autonomous **Language** detection, **Orientation** correction and **Template** agnostic solution
- Identifying and Extracting Data from different types of object like Tables, Key-Value Pair, Header etc,
- State of the art **Machine Vision** and **Deep Learning** techniques are utilized at different stages of product from image based or language based **classification** to **Object Detection** to **Name Entity Recognition** to data **Clustering** to **Tesseract** retraining.
- Autonomous **mapping** of the extracted values to respective categories and headers or column using **machine learning** algorithm
- Unit Tests** are written for entire module
- Model artifacts were converted to be used as **services**.

Achievements:

- *Been Part numerous critical POC's*
- *Small Team & fast paced working culture*
- *Generic algorithms for all templates*

Crux Intelligent Predictive Analytics Module for ICE-AI

- Oversampling of Data using state of the art model **Conditionanl-VAE, Conditional Tabular GAN**
- Use of **T-Test, UMAP** to validate generated data population
- Business Rule execution to get class label for over sampled data for **Meta Learning**
- Decision Tree** based machine learning classifier used for real time data **Classification**

Achievements:

- *Overcame class imbalance problem*
- *Achieved descent realtime classification accuracy using synthetic data*

Associate Consultant

Oracle Financial Services Software

July 2018 – Oct 2019

Bengaluru, India

ECM Enterprise Case management

- Worked to implement dynamic scenarios for decreasing **False Negative** cases
- Machine Learning models** are utilized for data classification
- Similarity Metric** is developed for the two mischievous case from same region
- Extracting heterogeneous feature from real time data
- Worked with real time data of over 48 countries.

Achievements:

- *Client Site working experience along with part of ECM 805 production support go live*
- *Been part Infra Team handling infra-setup for entire APAC Standard Chattered Bank*

PROFESSIONAL DEVELOPMENT

CVIT Summer School 2017

Workshop on Recent Advances in DEEP LEARNING for Computer Vision organized as Summer School 2017 by IIIT Hyderabad

EDUCATION

B.Tech (CSE) : 8.5 CGPA

Camellia Institute of Technology, Madhyamgram

Aug 2012 – May 2016

INDIA

M.Tech (CSE) : 8.5 CGPA

National Institute of Technology, Rourkela

Aug 2016 – Jun 2018

INDIA

MASTER THESIS* AND SELF PERFORMED PROJECTS

*UAV Pose Estimation in Corridor using Monocular Vision and Deep Learning

- The aim of thesis is to devise algorithm which enable UAV to navigate autonomously in indoor flat corridor environment with the help of convolution neural network in deep learning.
- Devised Algorithm using Corridor Bisector Line regressed by Deep Learning Model.
- created Dataset for Flat Corridor Environment

Surface Normal and Depth Estimation from RGB images Using Deep Learning for Indoor Scenes

- Used state-of-the-art Dense161 along with Transposed CNN to learn depth and surface normal of the NY-V2 dataset.
- Surface Normal Ground Truth are calculated from Depth information using **Intrinsic Parameter** of camera

PUBLICATIONS

- Deep Neural Network for Autonomous UAV Navigation in Indoor Corridor Environments
- Localization of Unmanned Aerial Vehicles in Corridor Environments using Deep Learning

TECHNICAL SKILLS

Computer Vision :	Image Processing,3D Construction
NLP :	Pos Tagging , Speech Tagging , NER
Machine Learning:	PCA,Random Forest,Ensemble Method Clustering
Deep Learning :	CNN,VAE,GAN,FRCNN,Tesseract
Databases :	MySQL, Oracle12g, NoSQL
Programming:	Python, PyTorch, OpenCV, PLSQL, Keras
Multi-threading :	Asyncio, Subprocess
Python Package:	Matplotlib,Pandas,CV2, Click, Scikit, Mock
Additional :	GitLab, Confluence, GCP, MIFlow, Linux Pycharm, Jupyter

ACHIEVEMENTS

- Qaulified Assistant Lecturer Eligibility Test for the department of Computer Science and Engineering, 2017
- Qualified Graduate Aptitude Test in Engineering(GATE), 2016
- Received Sri Devang Mehta Excellence Award by NASSCOM, 2016

REFERENCES

Farshid N. Hossein	Lead Data Scientist, Yantrik, Malaysia
Danisha Sajan	Senior Consultant, EY (Ernst & Young), INDIA
Pankaj K. Sa	Associate Professor, Dept. of CSE, National Institute of Technology, Rourkela