

# Arun Mohan

## Machine Learning Engineer

A proactive and fast-learning individual data science candidate with good problem solving skills and well versed in machine learning and scientific research.

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## EDUCATION

### Bachelor of technology in electronics and communication

Jawaharlal college of engineering and technology

07/2012 - 07/2016

## WORK EXPERIENCE

### Data Science Analyst

UL Technology Solutions Pvt Ltd

10/2019 - Present

Calicut

#### Achievements/Tasks

- Implemented an image segmentation model to detect building footprint from drone images and thus reduced the manual annotation cost by 75% .
- Developed and deployed a chatbot which is able to clear customer queries based on taxation using Rasa framework.
- Engaged in various other activities including building and deploying explainable machine learning models using classical machine learning techniques for root cause analysis.
- Developed and deployed an OCR which extracts text from scanned documents like pan card, aadhar card and license card using deep learning and image processing techniques(POC).

### Software Developer

Infolks Pvt Ltd

05/2019 - 10/2019

Palakkad

#### Achievements/Tasks

- Converting json output of annotation tool to other formats like xml, png etc as per client requirements.
- Automated bounding box annotation of vehicles using deep learning (YOLO) to ease annotation process(POC).

### Cloud Engineer

G7CR Technologies

08/2017 - 04/2018

Bangalore

#### Achievements/Tasks

- Installing,configuring Lamp, Magento, WordPress, nagios, guacamole etc in Linux machines in Aws and Azure cloud.
- Managed various services like Ec2,ELB,VPC etc in Aws cloud and configuring servers using ansible and python scripts.

## SKILLS

Python

PyTorch

Machine Learning

Deep Learning

Computer vision

Sklearn

Flask

Cloud

Linux

Tensorflow

Chatbot development

sql

arcgis-learn

Problem solving

Leadership

## PERSONAL PROJECTS

### IEEE CIS Fraud Detection(Top 3.5% On Kaggle LB)

- Implemented various machine learning models to detect online fraudulent transactions . Final model was based on Xgboost with an AUC of 0.928
- Detailed solution : <https://towardsdatascience.com/ieee-cis-fraud-detection-top-5-solution-5488fc66e95f>

### SIIM Pneumothorax Segmentation(Top 10% Kaggle LB)

- Detected regions of Pneumothorax from Chest Xray images using various image segmentation and deep learning techniques.
- Experimented with various models including Unet,Unet++,ReSUnet and FPN.
- Final model was based on Unet with ResNet Encoder and deep supervision branch which achieved an dice coefficient of 0.83.
- Deployed the final model using Flask after converting it to onnx runtime.
- Detailed solution: <https://medium.datadriveninvestor.com/siim-acr-pneumothorax-segmentation-top-10-result-abff760e0cab>

### Sentiment Analysis On Amazon Food Reviews

- Using machine learning and deep learning techniques to classify whether the review of any food in Amazon is positive or negative.For better and trusted system various algorithms like logistic regression, Naive Bayes, Xgboost, Random Forest and deep learning models like LSTM were tried.
- Final model based on LSTM was deployed using Flask
- Detailed solution: <https://towardsdatascience.com/sentiment-analysis-on-amazon-food-reviews-from-eda-todeployment-f985c417b0c>

## CO-CURRICULAR ACTIVITIES

Active Contributor in Kaggle

Blogging regarding data science on various medium publications like towardsdatascience, datadriven investor and thestartup.