# Akhil Chaudhary

## Machine Learning Engineer

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## SUMMARY

Having around 4 years of work experience in Software Development, working as a Machine Learning Engineer. My Everyday work involves building products, addressing challenges and offer services in field of Deep Learning, NLP, Propensity Modelling and Computer Vision for diverse clients. I have given solutions for an array of business challenges effectively making use of Deep Learning, Algorithms, Computer Vision, NLP, Java and Spring Boot. Also collaborated with clients to understand the business requirements as an added responsibility. I work as a Computer Vision Specialist for Image Quality, Object Detection, Classification and OCR.

## EXPERIENCE

### Data Scientist

**Denave India Pvt. Ltd.**

09/2021 - 12/2021 Noida, India

- Reduced telemarketing by 40% for same number of sales by developing behaviour prediction model.
- Developed propensity model to reliably predict customer behaviour by analyzing past purchase patterns.
- Trained models to reliably predict the customer buying behaviours and improved the telecommunication advertisement campaign efficiency.
- Trained Transformer Networks for Social Media Profile Summarization and make it easier to extract profiling information for further use.

### Machine Learning Engineer

**Accenture India Pvt. Ltd.**

05/2020 - 08/2021 Gurugram, India

- Achieved a 98% score on the accuracy of object detection model developed to prevent fire caused by electric lines and poles because of faulty equipment in US.
- Uplifted an OCR project's predictive model precision by 10% by introducing innovative solution to the problem.
- Developed NLP models chat bot and IVR for complex business problems which can handle payment gateways, live agents, payment extensions with both web and IVR interfaces. Also Integrated with wallets, payment gateways and machine learning tools to provide Specialized features and seamless experience from web, mobile or social media.
- Working on AWS Sage Maker and Machine Learning Tools to develop large scale Machine Learning business solutions.
- Developed Intelligent Image Processing for Distribution in Utility Domain.
- Implemented different Image Processing Techniques for Asset Damage Identification in Power Distribution Space.

## ACHIEVEMENTS

- **Reduced telemarketing by 40% for same number of sales.**
- **Developed New Technique for Blur Detection.**
- **Improved claim processing by 90%.**
- **Improved loading of image set by 80%.**
- **Responsible for improvement in one of the biggest insurance application.**

## EDUCATION

### Master of Computer Science

**Dalhousie University**

12/2021 - Ongoing Halifax, Canada

### Post Graduate Diploma

**Centre for Development of Advanced Computing**

08/2017 - 02/2018
Bengaluru, India

%age 71 / 100

### Bachelors in Computer Science

**Dr. A.P.J. Abdul Kalam Technical University (formerly Uttar Pradesh Technical University)**

08/2013 - 07/2017
Meerut, India

%age 75 / 100

# EXPERIENCE

## Research and Development Engineer

**Allstate Solution Pvt. Ltd.**

03/2018 - 05/2020 Bengaluru, India

- Developed automated claim process with deep learning at its core to analyze the images and process claims with 4 hours instead of usual process time of 8 working days.
- Successfully implemented new features in one of the biggest insurance applications which migrating it from older platform to a new platform with better scalability and features.
- Build the REST API services for the Quick photo claim application using Spring Boot.
- Developed high performance image display application to get human response on images for claim processing using React & Spring Boot.
- Built libraries and Automation tools which aided the support team to achieve faster resolution of production issues in the Application.

# PROJECTS

## Convolutional Neural Network Based Emotions Recognition System

A CNN based emotions recognition system, built with Scikit-Learn, Tensorflow and OpenCV.

- High degree of accuracy (86%) and confidence for real-time emotions recognition
- Potential applications in - Behavioural analysis, real time analysis of customer satisfaction in retail settings, automatic photography

## Spectrum Based Blur Detection

Developed Machine Learning Model to detect reflective blur.

- High effective for reliably detecting reflective blur in the image.
- Used for Claim Processing application to intake good images for claim processing.

## Summative Peer Review of Teaching

An online tool to facilitate end-to-end process of Peer Review of Teaching for UNSW staff members.

- Built with Spring Boot and React JS the application provides end-to-end support for booking, scheduling and conducting Peer Reviews of Teaching for UNSW academic staff.
- Leverages Mongo DB to extract staff calendar data to schedule reviews.