

Akhil Chaudhary

Machine Learning Engineer

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SUMMARY

Having around 3 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 & Computer Vision for Accenture AI. I have given solutions for an array of business challenges effectively making use of the 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

Machine Learning Engineer

Accenture AI

05/2020 - Ongoing Gurgaon, India

Accenture AI is Accenture's unique approach to combining AI with data, analytics and automation under a strategic vision to scale AI and transform business—across every function and process.

- Achieved a 98% score on the accuracy of the object detection model developed to prevent fire caused by electric lines and poles because of faulty equipment in the US.
- Uplifted an OCR project's predictive model precision by 10% by introducing an 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.

Research and Development Engineer

Allstate Solution PVT LTD

03/2018 - 05/2020 Bangalore, India

The Allstate Corporation is one of the largest publicly held insurance providers in the United States.

- Developed automated claim process with deep learning at its core to analyze the images and process claims with 4 hours instead of usual processing time of 8 working days.
- Successfully implemented new features in one of the biggest insurance applications which migrating it from older platforms 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.

ACHIEVEMENTS

- Improved claim processing by 90%.
- Improved loading of image set by 80%.
- Developed New Technique for Blur Detection.

EDUCATION

Postgraduate Diploma

Centre for Development of Advanced Computing

08/2017 - 02/2018
Bangalore, India

%age

71 / 100

Bachelors in Computer Science

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

2013 - 07/2017 India

%age

74.4 / 100

PROJECTS

Spectrum Based Blur Detection

In this project I have combined spectrum map generated using center Fourier transform of image with actual image and trained the network with progressive learning approach (increasing the size of image progressively while learning). Also, using Resnet50 as base model for learning the features in the images.

RESEARCH

A Glimpse Design of Peer to Peer Anonymous Network

In this paper, we propose a mutual anonymity protocol in decentralized P2P systems, called Secret-sharing-based Mutual Anonymity protocol. This provides both initiator and res-ponder anonymity, and communication security.

- Introduced the secret sharing scheme to guarantee anonymous query issue.
- Data Encryption Standard (DES) together with RSA and Diffie-Hellman for key exchange to achieve a complete reply-confirm interaction between initiators and res-ponders.

TRAINING / COURSES

Classroom Training's/ Certificates:

- Android Development by HP.
- Advanced Java by Sunrise Technologies.
- Java Core by Sunrise Technologies.
- Oracle 11g
- Linux Administration by RCPL.
- CPP with Data Structures by HP.
- Google Ad Words.
- Hurricane Electric IPV6.

Coursera Training's/ Certificates:

- Robotics: Estimation and Learning
- Robotics: Aerial Robotics
- Robotics: Perception
- Robotics: Mobility
- Robotics: Computational Motion Planning

PROJECTS



Store Sale Prediction

In this project I have created a deep learning convolution neural net model using TensorFlow for the time series prediction of the sale of a store and utilized Convo 1D layer for the input. For this project we had over 60 thousand records which is containing sale data of a store over a month of time with sale day based on days, opening and closing time. Here I have achieved over 94 % accuracy which is far greater than LSTM based RNN solution of 90%.



Developer's Social Network

Designed and Developed a social media site similar to LinkedIn where developers can showcase and share their projects and interact with others. In this I have provided features like share, like, comment and post.



E-commerce website

Designed shopping website with features like cart, individual accounts and logins, item category, admin account for listing and item search and sorting to find appropriate item.