

# RAHUL DOGRA

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## EXPERIENCE

Senior Software Engineer with 4+ years of experience in Artificial Intelligence. I design and execute experiments programmatically and mathematically in different business problems using optimized AI algorithms.

### Senior Software Engineer - AI/ML Cignex Datamatics

📅 Oct 2021 – Present 📍 Gurugram, India

#### NLP and AIOps - Intelligent Document Processing - Wipro

- Created a Smart Extraction AI Bot for Wipro which can extract 26 entities/attributes from different types of documents(pdf, docx, word, scanned images ) and configured Nvidia GPU,CUDA with AWS server for training the model using Linux OS and and deployed to production pipeline.
- Technology: Python, PdfTolImage, Pytesseract, Regex, Beautiful soup, NLTK, Spacy3 , GPT-2, RoBerta-Base, OpenCV , Gensim, AWS, Linux, Nvidia Tesla GPUv100, Text Annotations Manual Tool

### AR Associate GeBBS Healthcare Solutions

📅 Jan 2020 – Feb 2021 📍 Mumbai, India

A Medical Billing International US based company: To make sure claims get paid to providers by insurance company through analyzing the historical data

### Senior Officer-Analytic ICICI BANK

📅 Dec 2016 – July 2019 📍 Noida, India

#### CREDIT CARD LEAD PREDICTION - PREDICTIVE ANALYSIS

weekly productive and analysis reports.Achieved in predicting the rich customers who could buy credit cards.  
Python | Machine Learning Boosting Algorithms|NN|EDA)

## EDUCATION

### NIIT PG Diploma in Banking Operations

📅 2016 – 2016

### University of Lucknow Bachelor of Computer Application

📅 2012 – 2015

### Trainee | INTERNSHIP ReGex Software Services

📅 Jan 2021 - April 2021 📍 Jaipur,India

#### Internship Project

- Iris Flower Classification Model
- Build Neural Networks from Scratch with only Python
- Technology Python | XGBoost | KNN | LightGBM | CatBoost | NN

## SKILLS

- Image Processing: OpenCV, PyTesseract, OCR Extraction
- Text Processing: Spacy, NLTK, Hugging Face
- Machine Learning: sklearn, numpy, pandas
- Deep Learning: TensorFlow, Pytorch
- Languages : Python, C++
- Web Based Technologies: Django, Flask
- Version Control Systems: GitHub, BitBucket
- Databases : Microsoft SQL, SQLite
- Visualization Tools : Matplotlib, Seaborn, Plotly, Cufflinks, Folium Maps
- Deployment : Docker, AWS Lambda, AWS with SageMaker, Heroku

## ACHIEVEMENTS

- Rank - 144 in (ML Problem Statement) : Issued by Analytics Vidhya · Sep 2021
- Merlin Fit - Adidas : Created AI powered gym tracker using AI Powered Pose estimation and MediaPipe BlazePose to detect different poses from a webcam feed. Then render the results to the screen using OpenCV.Extract joint coordinates and calculate joint angles!

## PROJECTS

### Vision Transformer(ViT) on Image Classification

- Achieved State of the Art even using transformers for Image-related Tasks. NO CNN Required.
- Technology: vit pre-trained model | Python | Pytorch | Transformers

### Document Clustering using ML and Deep Neural Networks - NLP Task

- Implementation of highly optimized Language Models to predict the polarity of textual data to separate multiple different documents
- Technology: K-Means | Gensim | TF-IDF | Word2Vec | NLTK | BERT

### Generation of Tabular and Image Fake Data using CGAN and AutoEncoder Networks

- Experimented different ML/DL algorithms for identifying Insider threats.
- Technology: AutoEncoder-LSTM | GAN | Pytorch | Numpy | Pandas

### Linux Path Traversal and AIOps

- Created virtual linux terminal on AWS server that can execute various commands: md, cd, cd..., ls, pwd, dir, rm, cp, mv, and configured GPU for training.
- Technology: Linux, WinSCP, Putty, CUDA10.2