Junaid Khan
Senior Data Science Engineer

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EXPERTISE

Deep understanding and expertise in the field of Machine Learning, Deep Learning and Statistical Learning.

Experience in Exploratory Data Analysis and Data Visualization with principal component analysis, TSNE, Data Preprocessing & Feature Engineering.

Graphs, Classification, Regression, Computer Vision and Deep Learning (MLP, CNN, RNN – Encoder-Decoder Attention Models)

Natural Language Processing Transformer (BERT , ALBERT etc. in Hugging Face)

Mathematical knowledge in Optimization techniques – Gradient Decent, SGD, AdaGrad, AdaDelta and Adam

Linear and Nonlinear models, Bayesian theory, Recommendation systems, Data visualization.

Transfer Learning using pretrained models like VGG16,DenseNet etc.

KNN, Logistic Regression, Linear Regression, SVM, Naïve Bayes, Random forest, Decision Tree, XGBoost ,Gradient Boosting Decision Trees.

COMPETENCIES

Programming Languages			
	Python	SQL	C/C++

IDE/Tools:			
	Jupyter Notebook	VS Code	PyCharm

Machine Learning Tools			
	TensorFlow	PyTorch	scikit-learn

Cloud Platforms:		
	AWS (Sagemaker, EC2, GCP S3)	

PROJECTS

July 2020 - Aug 2020

Recruit Restaurant Visitor Forecasting

Objective:-The Goal of the project is to predict how many future visitors a restaurant will receive using Machine Learning Technique.

Analysis:-Performed detailed Exploratory Data Analysis on Recruit Restaurant Dataset.

Models Built:-K-Nearest Neighbour, Linear Regression, Decision Trees, Random Forest & GBDT.

Framework & Lib:-Python – SkLearn, XGBoost, Statsmodels, Matplotlib, Seaborn, Pandas & Numpy.

Blog:-Visit Medium Blog.

Code Repo:-Visit GitHub Repository.

| July 2020 - Aug 2020 | **Pneumonia Detection using Chest X-Rays** |
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Objective:-The Goal of the project is to Buil a deep learning model that automatically detects & locate potential pneumonia lung opacities on chest radiographs (CXR).

Analysis:-Performed detailed Exploratory Data Analysis on RSNA Pneumonia Detection Data Dataset.

Models Built:-A binary image classifier model using ChexNet (i.e densnet121 trained on chest x-rays) and A Pneumonia opacity detection model using YoloV3 model with ChexNet as backbone.

Framework & Lib:-TensorFlow, pydicom, cv2, albumentations, lxml.

Blog:-Visit Medium Blog.

Code Repo:-Visit GitHub Repository.

EDUCATION

July 2012 - May 2016   Government College Of Engineering, Chandrapur
Bachelor of Computer Science & Engineering (7.11 CGPA)

July 2010 - July 2012   Kendriya Vidyalaya WCL, Chandrapur
HSC 12th-Grade (68.20% Aggregate)

June 2009 - June 2010   Government Jubilee High School, Chandrapur
SSC 10th-Grade (77.45% Aggregate)

EXPERIENCE

June 2016 - January 2021   Nexus Techsolution, Chandrapur
Freelance Developer

Designed & Developed static & Dynamic websites from scratch or using CMS

Optimized existing websites

Performed Search Engine Optimizations

Integrated Payment Gateways

Integrated external plugins & API's

February 2021 - July 2021   SimSol Technologies & Services Pvt. Ltd, Mumbai
ML-AI Developer

Information Extraction

Optical Character Recognition

Image Processing & Classification Models

Object Detection Models

July 2021 - Present   Integra Software Services Pvt. Ltd
Senior Data Science Engineer

Bulk Data Handling & Preprocessing

Working on Advanced NLP Technologies

Working on Advanced Grammatical Error Correction Models

CERTIFICATION

Issued Oct 2020   Applied AI Course
See Credential

Issued July 2019   Applied Data Science with Python - Level 2
See Credential

Issued July 2019   Data Science Foundations - Level 1
See Credential

Issued July 2019   Python for Data Science
See Credential