



CONTACT

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[Puja Nagarkar](#)

SKILLS

Python
Numpy
Pandas
Django
FastAPI
Matplotlib
Scikit Learning
Git
Docker
AWS
Tensorflow
Pytorch
CNN
NLP
SQL
Excel

EDUCATION

2017 - 2019
M.TECH DIGITAL SYSTEMS
CGPA-8.5
College Of Engineering
Pune,

2012 - 2016
B.Tech ,E&TC
CGPA-8.8
MIT,Aurangabad,
Aurangabad

PUJA NAGARKAR

Data Analyst / Data Scientist / Machine Learning Engineer

Aspiring data scientist with a diverse background in Software Development, I am eager to bring my unique perspective and skill set to the world of data science. With a solid foundation in mathematics and programming,I am excited to contribute my passion for data-driven decision-making to drive business success in the data science arena.

RELEVANT WORK

WORK PROJECTS

Nano-Vision: Worked on POC of a Face Recognition System Known as NanoVision used for Facial Authentication at BAPS Temple, Abu Dhabi. Successfully developed a In-house model for the Face Recognition and Liveness Detection using Computer Vision and Deep learning and still in the Process of making it more robust.
[\[NANO-VISION\]](#)

Hotstar:

Worked on the Development of Classification Problem of Tickets as Urgent and Non-Urgent Raised online on Hotstar Platform using Natural Language Processing models.

PHD PROJECTS

Early Prediction of Grape Quality using IOT and Machine Learning base on Pre-Harvesting Data:

This Project was carried out in 5 phases namely Soil,Water,Climate,Yield and Berry Analysis and 5 different models were developed using the Local data collected.

A User Friendly GUI was also developed to integrate all the phases and get the Final Prediction about the Yields.

Detection of DDoS Attacks using Machine Learning Algorithms:

Collection of several Datasets was done and various algorithms were used to improve the accuracy more than existing works.

Prominent Methods used were KG-SMOTE,LSTM,BiLSTM,GRU,DeepAuto Encoder,IG,RFE etc.

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPER

MAY-2021-CURRENT

NANOSTUFFS TECHNOLOGIES PVT LTD.

Performed tasks as Salesforce Developer with different projects from Clients like Deloitte,PwC,TATA Capitals etc.

Technologies and platforms: Salesforce CRM, Salesforce Lightning, Salesforce Community, customer relationship management (CRM) solutions, VisualForce, Salesforce.com, Salesforce Data Loader

Scripting and programming languages: JavaScript, Salesforce Apex, HTML, SQL, CSS, SOQL, Java

DESIGN ENGINEER

AUG 2019-AUG-2020

CHARGEX PVT LTD.

Developed a Prototype of AC EV-Charger Software compatible with the Slow,Medium and Fast Charging of Electric vehicles.

PUBLICATION

Integrating ANN and Taguchi method for Hyperparameter optimisation of Land use and landcover classification

2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)

CERTIFICATIONS/COURSES

Deeplearning by Andrew Ng
Python for Computer Vision with OpenCV and Deep Learning
Python Django - The Practical Guide
Complete A.I. & Machine Learning, Data Science Bootcamp

INTERNSHIPS

ISRO, Bangalore -2016

Worked in the Department of CONTROL AND DIGITAL ELECTRONICS GROUP. The project was to design a customized 16-bit microprocessor using VHDL and completed the project successfully.

Shyna Tech Yarns-2021

Machine Learning Developer Intern

PERSONAL PROJECTS

Dissertation: Integrating Taguchi method and ANN for Multispectral satellite image Classification. M. tech-9/10

- Extracting Satellite Image data from the website Archives.
- Pre-processing and Balancing the dataset.
- Predictive Modelling using ANN.
- Taguchi method implementation for Optimization (Minitab).

Telecom Industry Churn Prediction in South Asian Market:

- Using Various Models in ML Arrived at First cut Industry acceptable Solutioning for the Problem.

- Wrote a Blog about whole process :

[TELCOM INDUSTRY CHURN PREDICTION](#)

NLP: Prediction of selection of Essay on Donors Choose dataset

- Detailed exploratory data analysis of text and Preprocessing of text using NLTK.
- Stemming, tokenization and lemmatization is done TFIDF vectorization is implemented for the text essay column.
- Different ML algorithms are used like Naive Bayes, Decision Trees, GBDT and a comparison is done. State of the art LSTMs are also used which learn contextualized and sequential information from the text and perform really better than other ML algorithms.

Designing the Product Recommendation system

- Adjacency matrix is constructed and Truncated SVD is applied. This is done so that the decomposition of matrices are obtained U and V.
- By assuming User and Movie bias, SGD is applied and the Movie ratings are predicted.
- This approach is similar to Netflix competition winner solution.

NLP with Transfer learning BERT model

- Pre-processing the dataset of words Using A pretrained BERT model of BERT with TensorFlow bert_en_uncased
- Giving Mask, Tokens and Segment vectors to the BERT model and taking pooled outputs. Training a Last layer neural network and getting the outputs.

Unsupervised Learning:Clustering on graph dataset

- Movie and actor pairs present in csv file are used to create a bipartite graph. The Graph Connections and characteristics are used for clustering K-Means. Clustering is used to cluster the similar actors and movies where custom cost function is written To maximize the similarity.

EXTRA-CURICULARS

Completed one month course in IOT using Raspberry-pi and Python
Served at post of Secretary of TESA in 2014-15 15 under which we teamed up and organized a technical event "TECHKSHETRA" for 3 days and Member of Secretary of TESA in 2013-14
Participated in workshop held on "Red Hat." by Red Hat Organization, M.I.T.
Have actively participated in social activities like city cleaning, street plays, Reveille in slum areas about hygiene and health as a member of NSS circle of college.
Active member of Art of Living organization.
Worked as a member anchoring committee for Annual Functions of our college for 2 years.
Successfully worked for organization of a 7 days NSS Camp at a village near Aurangabad city