

# Reesu Jagan

Data Scientist

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## CAREER OBJECTIVES:

Aspiring Data scientist with a passion for delivering valuable insights through analytical functions. Committed to helping companies advance by helping them to develop strategic plans based on predictive modeling and findings.

## WORK EXPERIENCE:

- Trainee employee at SoothSayer Analytics-TuringMinds.ai – a subdivision of INSOFE | Feb 2022-Mar 2023|  
Training as part of a Work Integrated Learning Program to become a Data Science Professional

- **PROJECTS:**

- **Purpose: Robust yield prediction of various farm processing units**

- A new fast-food chain is seeing rapid expansion over the past couple of years. They are now trying to optimize their supply chain to ensure that there are no shortages of ingredients. For this, they've tasked the data science team to come up with a model that could predict the output of each food processing farm over the next few years. These predictions could further increase the efficiency of their current supply chain management systems

- **KAGGLE COMPETITIONS:**

- **Kaggle American Express-Default prediction:**

- The objective of this competition is to predict the probability that a customer does not pay back their credit card balance amount in the future based on their monthly customer profile. The target binary variable is calculated by observing 18 months performance window after the latest credit card statement, and if the customer does not pay due amount in 120 days after their latest statement date it is considered a default event.

## KEY SKILLS:

- **Programming language:** Python, Pytorch ,PySpark ,PyTorch, R, Matlab.
- **Statistics/Machine Learning:**  
Statistical Modeling Algorithms – Simple Linear and multiple Linear Regression  
LogisticRegression, shrinkage/regularizationtechniques Ridge-LASSO,  
ELASTICNet/PCA,  
Machine Learning Algorithms (Ensembles) – Agglomeration, Clustering,  
Recommender Systems, KNN, K-Means, Decision Tree, Random Forest, SVM,  
Bagging, Boosting, Ada-Boosting, Gradient Boosting, XGB, Stacking etc,  
Neural Networks – Artificial Neural Networks, Deep Learning. Auto Encoders.
- **Optimization and Decision Analysis** – Linear Programming Algorithm, Non-Linear  
Programming Algorithm, Genetic Algorithm, Goal Programming.
- **Big Data Engineering:** Linux, MySQL, Hadoop, Map-Reduce, Spark, Hive, HQL, No-SQL,  
JSON, MongoDB, PySpark, PySpark ML.
- **Tools:** Tableau (Intermediate Level).
- **Frameworks:** Flask, Stream lit.
- **DevOps/ MLOps:** Docker, Jenkins, Git.
- **Cloud:** Azure Data factory, Azure Data lakes, Data Bricks, Azure synaptics.
- **Computer vision:** Image Processing, Object Detection and Recognition, Convolutional  
Neural Networks (CNN), Image Segmentation, Transfer Learning, Data Augmentation,  
Feature extraction and Representation.
- **NLP:** Natural Language Processing (NLP) fundamentals, Text Pre-processing and Cleaning  
Tokenization and Sentence Segmentation, Part-of-Speech (POS) Tagging and Named Entity  
Recognition (NER),Sentiment Analysis, Word Embeddings and Text Vectorization, Deep  
Learning for NLP, Sequence Modelling with RNN, LSTM, and GRU, Transfer Learning for  
NLP, Transformer based models and the Hugging Face ecosystem.

## EDUCATION:

- **Rajiv Gandhi University of knowledge and Technologies-Nuzvid.**  
Bachelor of Engineering [Mechanical Engineering] - 2022 (CGPA: 8.5)

## ACTIVITIES:

- Certificate of Participation as a participant in District volleyball competition.
- Participated in Tekzite-2k19 Technical fest.
- Served as NSS Volunteer (2017-2019).

## ACADEMIC PROJECT:

### **Purpose : To design a Mini Rice Milling machine**

- Design and fabrication of a motorized rice hulling machine
- To reduce the cost of production of machine so that it can be affordable

## ADDITIONAL INFORMATION:

**Languages known:** Telugu ,Hindi, English