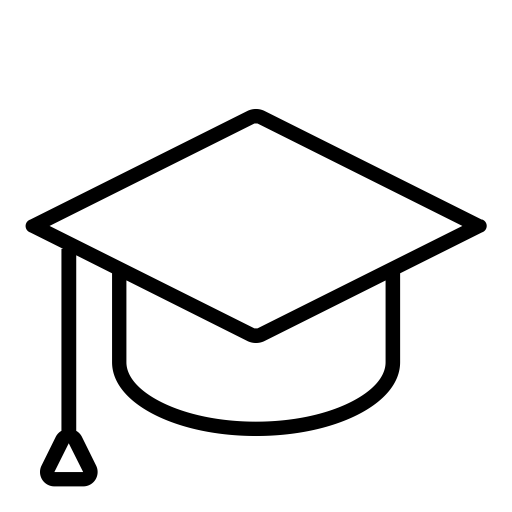
RAAJESH LAGUDUVA RAMESHBABU  raajeshlr2@gmail.com

Senior Data Scientist  +91 - 9600745502

Trying to make the world a better place, one line of code at a time.  Shivani Apartments, Bangalore.

A picture containing text, clipart

Description automatically generated <https://www.linkedin.com/in/raajeshlr> Image result for work experience icon png Infosys Ltd - 6.2 Years

 <https://github.com/raajeshlr?tab=repositories>  B.E ECE: 86.3 %

# WORK EXPERIENCE – Research and Development Infosys Ltd, Dec 2018 - Present

# INFOSYS FRAUD DETECTOR

# Developed web application - Angular: UI Layer, Python: Application Layer, MongoDB: Data Layer.

# I have worked on Python and MongoDB and have understandable knowledge on Angular.

# I have used LSTM + CNN based ensemble network for identifying fraudulent info in text and numerical data.

# Deep Learning model + NLP techniques Spacy, tesseract, bounding box for identifying tampered image.

# I have used Docker for Python, implemented Azure AD Single Sign On (SSO), 3-tier architecture.

# The product is live, and I have taken care end to end - Requirement, technically leading, deployment.

# COMPREHENSIVE CROSS CHECK FOR NEW JOINERS

# Developed Python bots for extracting fields from documents and pdfs, comparing it with SAP DB data.

# I have created the pipeline of this project and deployed it in the Virtual machines.

# It is for the HR Team and the product is live, it automated the manual cross check work and reduced FTE’s.

# INFOSYS INTELLIGENT CHATBOT – Understands user screen and provides solution.

# I have developed Microsoft Azure ChatBot using node.js and used Python for backend Machine Learning.

# I have used One-Shot Learning, NLP techniques, and built with QnA and RPA Services.

# Deployed Python code to Azure as a Docker image.

# INFOSYS INTELLIGENT ASSISTANT – To Automate Support Projects.

# I have used Logistic Regression, Random Forest, Decision trees algorithm for the text classification.

# I have implemented LDA for clustering for tickets, spacy for NER, text rank for related tickets.

# SIGNATURE CLASSIFICATION USING CNN

# I have started this project from scratch, collected the images, labelled it, trained using CNN model.

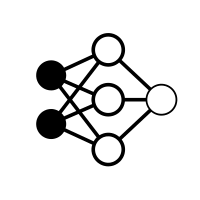
# I have then written the python code for cropping, finding the coordinates and completed this small project.

# INTERNSHIP EXPERIENCE <https://theschoolof.ai/>

# Image result for work experience icon png Experience on CNNs and NLP using Keras and PyTorch, GAN.

# CNN - Image classification and object detection, Landmarks detection, Transfer Learning, super convergence.

# NLP - RNN’s and LSTM for text classification, Sequence to Sequence models.

CNN Projects in Keras: https://github.com/raajeshlr/EVARepository

 NLP Projects in PyTorch: <https://github.com/raajeshlr/NLP-END>

# WORK EXPERIENCE – IT Analyst TCS, Dec 2016 – Nov 2018

**HOME CREDIT DEFAULT RISK**

* Our goal is to predict loan defaulters using Logistic Regression, Random Forest, and LightGBM model.
* Performed EDA, preprocessing done, tried feature engineering, and evaluated with ROC AUC.

**FINDING DONORS FOR CHARITY**

* Our goal is to predict individuals makes money > $50,000 to appeal donor for a non-profit organization.
* Performed EDA, pre-processing including skewed continuous feature transformation, normalization, encoding.
* Performed Grid Search CV and fine-tuned essential parameters for GBM, which achieved a prediction accuracy of 87%.

**DENSELY CONNECTED CONVOLUTIONAL NETWORKS – DENSENET**

**CIFAR10 DATASET: DENSE-NET PAPER** <https://arxiv.org/pdf/1608.06993.pdf>

* Created Dense-Net architecture with three convolution blocks and two Transition blocks.
* Achieved the max validation accuracy of 88% after fine-tuning and implementing OneCycleLR.

**CREATING CUSTOMER SEGMENTS**

* Developed Unsupervised Learning, clustering technique, demonstrated feature scaling, dimensionality reduction and feature transformation using PCA and identity customer segments hidden in the data.
* Developed K-Means clustering algorithm and GMM and measured performance with Silhouette score.

**CONVOLUTIONAL NEURAL NETWORKS USING FASHION MNIST DATA- NO OBSELTE METHOD**

* Goal is to achieve 99.2% Val Accuracy with less than 20,000 Hyper-parameters (No Hidden layers should be used).
* Developed the model with a high-level framework Keras, with selection of Tensorflow for backend.
* The model achieved 99.2% Validation accuracy in 11 Epochs.

**RESTAURANT REVIEW MANAGEMENT SYSTEM**

* Goa is to classify reviews, performed cleaning, stemming, created corpus and bag of words with 2000 features.
* Implemented Gaussian Naïve Bayes Classifier, and trained and tested the model, evaluated using f1\_score.

**CERTIFICATES**

ML Nanodegree - Udacity, Sequence Models - Coursera, Machine Learning - Coursera, Machine Learning A-Z - Udemy.

**SKILLS**

Machine Learning, Deep Learning, NLP, RNN, LSTM, Tensorflow, Keras, PyTorch, Image Processing, OpenCV, Python, MongoDB, REST APIs, Microsoft Azure Services, Docker, SQL, Git, Leadership Skills.

**HONOR AWARDS**

*Impact creator award from Infosys.*

*Best Performer of the year award from TCS.*

*Service and commitment award from TCS.*

# LANGUAGES: Sourashtra, English, Tamil, RW Hindi, Learning Kannada.

# INTERESTS: Advanced Deep Learning and NLP.

# ACHIEVEMENTS

# Secured ‘Certificate A’ Exam under authority of, Ministry of Defense, Government of India.

# Completed Hindi Exams until Praveshika.

# Presented Parallel Parking robots and image processing surveillance system papers during college

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