

RAJKUMAR LAKSHMANAMOORTHY

Python | Machine Learning | NLP | Computer Vision

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LinkedIn: <https://linkedin.com/in/rajkumarl>

GitHub: <https://github.com/RajkumarGalaxy>

Portfolio: <https://rajkumargalaxy.github.io/r>

Location: Visakhapatnam, India

General Purpose Language

Python 3 (functional, OOP)

ML Frameworks

TensorFlow, Keras, PyTorch

ML Libraries

SciKit-Learn, SciPy, statsmodels

Data Wrangling & Analysis

Pandas, NumPy

Data Visualization

Matplotlib, Seaborn

Natural Language Processing

NLTK, spaCy, HuggingFace

Computer Vision

OpenCV, Pillow, skimage

Graphs

Networkx, DGL

Data Mining & Scraping

BeautifulSoup, PRAW, requests

Version Control System

Git, Git-LFS

Databases

MySQL, MS SQL Server, BigQuery

Cloud

GCP (Basics)

IDE

Jupyter, Spyder, Anaconda, PyCharm, Shell

Key Certification

Data Science Domain (Jan 2021) – NPTEL IITs and CMI (Topper in 4 courses)

1. Programming, Algorithms & Data Structures Using Python – 88 %
2. Python for Data Science – 89 %
3. Introduction to ML – 78 %
4. Practical ML Using TensorFlow – 86 %
5. Deep Learning – 80 %
6. Applied NLP – 71 %
7. Data Analytics with Python – 83 %

Education

M.Eng. Engineering Design 2014-2016
- 5th Univ Rank, Anna University 8.6 CGPA

B.Eng. Mechanical Engineering 2006-2010
- 13th Univ Rank, Anna University 88.4%

Interests

Kagglings – Practicing Martial Arts –
Reading Novels – Playing Chess – Cycling –
Writing Novels & Poems

Profile Summary

Machine Learning Engineer with a bias towards Python, NLP and Computer Vision. A continuous learner, quick problem solver, team player with strong inter-personal and communication skills.

Internship and Relevant Experience

1. Akrivia Automation Pvt Ltd, Visakhapatnam – Machine Learning Engineer

Duration: 3 months – Jan 2022 till date (currently working)

Role: Building end-to-end NLP models for resume parsing and ranking

2. Analytics India Magazine, Bangalore – Data Science Intern

Duration: 3 months – Mar 2021 to May 2021

Role: Writing articles in Machine Learning, Deep Learning, Data Analysis, NLP, Computer Vision, and Time-series – Exhaustive Literature Review

Link to works: <https://analyticsindiamag.com/author/rajkumaranalyticsindiamag-com/>

3. NIRO Projects, Tiruchirapalli – Founder & Executive Engineer

Duration: 1 year – Nov 2019 to Oct 2020

Role: Statistical Data Analysis and Visualization using Python, Pandas, NumPy, SciPy and Matplotlib – Electronics Embedding using Raspberry Pi & Arduino.

ML Forum (Link to profile: <https://kaggle.com/rajkumarl>)

Kaggle 3x Expert with 9 Datasets, 20+ Notebooks, 120+ Discussions

ML Blogs (Link to Blogs: <https://rajkumargalaxy.github.io/r/blogs>)

Written so far 70+ blogs, tutorials and review articles in Machine Learning, NLP, Computer Vision and Python-OOP

ML Projects (Link to Projects: <https://rajkumargalaxy.github.io/r/projects>)

1. Wiki-IR-ChatBot

- NLP | Information Retrieval | Web Scraping | NLTK | BeautifulSoup
- A ChatBot that responds to humans by retrieving information from Wikipedia.

2. Conversational AI Chatbot

- NLP | NLU | DialoGPT model | Transformers | Object-Oriented Programming
- Intelligent ChatBot that makes cognitive conversations with human users.

3. Jane Street Market Prediction

- Time-Series | ResNET | ML Interpretation with SHAP | Feature Engg
- Predicting share market price using LSTM-based ResNET architecture.

4. Ruddit Comment Extraction

- Data Scraping | Text Mining | Reddit API | PRAW
- Ruddit Comments extracted from Reddit using Python Web Scraper PRAW based on a recent research paper.

5. Sentiment Analysis on WNLI Dataset

- NLP | BERT | PyTorch | Transformers | Fine-tuning | GLUE Benchmark
- Sentiment Analysis on WNLI by fine-tuning a BERT model in PyTorch.

6. People Clothing Image Segmentation

- Computer Vision | OpenCV | TensorFlow | U-Net | ResNet Encoder
- Data collection and cleaning, Data pre-processing, Modelling U-Net Architecture with a pre-trained ResNet encoder, Fine-tuning, Model evaluation

7. Linear Image Filtering

- Computer Vision | Python | Convolution | Cross-Correlation | Image Filter
- Tasks such as Cross-correlation, Convolution, Properties of convolution with proof, Moving average filter, Gaussian filter, Edge filter and separable filters.