# **G Yeshwant Kumar** +91-7894686212 | <u>Gmail</u> | <u>Linkedin</u> | <u>Github</u> | <u>Medium</u>

#### **PROFESSIONAL EXPERIENCE**

# Data Scientist

Great Learning.

- Started my full-time role at Great Learning and currently working on projects in Deep Learning and Machine Learning.
- Creating content on Deep Learning and working on Research in the domain of Machine Learning and Deep Learning.
- Working on Projects using Convolutional Neural Networks in Collaboration with International Universities.

#### **NLP Deep Learning Intern**

Gnani.ai.

- Developed an AI Voice-bot for EMI and Credit Card Services using Python and Rasa Framework.
- Prepared Training data by creating NLU's and Stories for training the model.
- Designed custom action files for validating several actions and functionalities like call-later and date validations.
- Have done call integration and Call Orchestrator for enabling call services.
- Trained the model on Server Machine and integrated it with Postman to test calls and used MongoDB to store and retrieve the call details.
- Took several test calls to look after the call flow and made the necessary changes.
- Designed templates for utterances given by the bot in English and Hindi languages.
- Worked on trimming the audio in the voice calls to remove the trailing silence in the calls.

## Tutor at TalkValley LLC

Mentorstudents.org

- Worked as a tutor in creating content on Big Data and Data Engineering like Apache Pyspark, MLlib, and Python.
- Have developed several Data Science Pipelines in Pyspark and worked on the different platforms for Pyspark MLlib.
- Worked on several Machine Learning Algorithms and implemented Pyspark on platforms like Databricks, Colab, and also on an Ubuntu virtual machine.
- Worked on several projects related to the Marketing domain related to the churn of customers and decrease in productivity.

## Deep Learning Intern

Pianalytix Pvt. Ltd

- Developed a Deep Learning model to count the number of screw outlets from the production of a company.
- Gathered Data from a video source recorded during the production of screws and extracted each frame from the video and then used those images for training the model.
- Used LabelImg to label the screws in the images for the custom input for YOLO and SSD Mobilenet architecture.
- Built a customized CNN architecture for the model and also trained on YOLO using the custom dataset.
- Detected the number of screws that were produced during the production.

[May – June 2021]

Bangalore, India

[March – April 2021]

Work from Home, US

[Jan – Feb 2021] Work from Home

[July – Present] Bangalore, India

## PROJECTS

#### Building-an-AI-Enabled-Fintech-B2B-Invoice-Management-Application

- Developed a Machine Learning model to predict the delay from the due date to the clearing date.
- Here the Model would predict the delay on test data using which we can calculate the clearing date.
- Here I have done the splitting of data using Time series split as this problem was a Time series problem and even the cross validation need to be done in a Time Series Cross Validation.
- Here I have used several Machine Learning models and had got a better result with the Tree-Based Random Forest model, So I even tuned the parameters of the model to get the best hyperparameters.
- Here I have also built a Table in Frontend to display the predicted delays and aging buckets of delays.

#### Air Quality Index Prediction

- Developed a Machine Learning model to predict the Air Quality Index.
- Here I scrapped data regarding the weather from the website using requests and then retrieved the data from the HTML pages using BeautifulSoup and then performed several preprocessing and EDA on the data.
- Also Trained the model using several regression algorithms and chose the best model from the various other models and performed Hyperparameter Tuning on the best model and evaluated the model using several evaluation metrics and also deployed the model on Heroku using Flask.

#### Case Study on Diabetes Readmission Prediction

- Developed a Machine Learning model to predict whether a patient would get readmitted to the hospital in 30 days.
- Here I used a customized stacking classifier as the model to predict the readmission and also deployed the model on Heroku.

#### Chatbot using Rasa-X for Covid Enquiry

- Developed a chatbot using Rasa-X by training the model on several NLU's and stories.
- Prepared customized utterances for the bot inquiry regarding the Covid guidelines and rules and also integrated the chatbot in Telegram.

#### Case Study on Car Brand Classification

• Developed a Deep Learning CNN model to classify the cars depending on the brands of the Cars by performing several preprocessing and augmentation on the images and also worked with several pre-trained models like VGG16, VGG19, Resnet.

#### Case study on Malaria Detection

- Trained a VGG19 model to detect the presence of the parasite in images collected from patients.
- Using the VGG model I classified the patients as being infected or uninfected.

#### Case study on Self-Driving car

• Implemented the self-driving car model by using the CNN architecture from the research paper from Nvidia on custom data over a frontal video of 25 minutes and tested the model to monitor the steering wheel moment during the drive.

#### Building a Blog-Post Website using Django

- Here I have built a website and deployed it on Heroku.
- Here I tried to display a short summary of all my Blogs and Posts on the website.
- I have also used Postman to check the API calls for the registration and login page.
- <u>My-Blog-Post</u> website deployed on Heroku.

## **Hackathons and Blogathons**

#### Machine Learning Hackathon, Machinehack

- Have done rigorous feature Engineering and implemented a stacking classifier model to get the best score.
- Secured 45th position in the National-wide Hackathon of more than 2000 members.

#### <u>The Great Indian Hiring Hackathon</u>

- Developed a Machine Learning model to predict the price of retail items belonging to different categories.
- Secured a rank in the top 1000 over the 10000 participants.

#### Cloud X Lab Data Science Blogathon

- Written a blog on the use of Machine Learning for Bank Churn Prediction.
- Developed various models and used Hyperparameter Tuning on the best model.

#### Blogs

- Face detection using LBPH(Local Binary pattern Histogram) Face Recognizer
- <u>Chatbot using Rasa framework</u>
- Face Detection using OpenCV
- <u>Explaining Single-Shot Detector</u>
- <u>Car Brand Classification</u>
- Diabetes Readmission Prediction

# Certifications

- Applied Ai Machine Learning certification from Applied Ai.
- Programming for Data Science with Python from <u>Udacity</u>.
- Machine Learning and Deep Learning Engineer Nanodegree from <u>Udacity</u>.
- Machine Learning from Harvard by *edx*.
- Microsoft Azure Fundamentals from <u>Microsoft Azure</u>.
- Introduction to Tensorflow Nanodegree from <u>Udacity</u>
- Python for Machine Learning by <u>Great Learning</u>.
- Data Scientist Nanodegree from Udacity.

## **TECHNICAL SKILLS**

- **Development:** C, Python, Java, Flask, Django, HTML, Pandas, Machine Learning, Neural Networks, Keras, Pyspark MLlib, Tensorflow, NLP, Data Visualization using Seaborn, Matplotlib, and Plotly.
- **Databases:** Mysql
- *Frameworks:* Git, Rasa framework, Gitlab, Github.
- *Platforms:* AWS, GCP, Google-Colab, Databricks, Anaconda, Pycharm, Heroku, Spyder, Eclipse, Atom.
- **Operating Systems:** macOS, Windows, Linux (Ubuntu)

## ACHIEVEMENTS

- Received Student of the year for the best performance in Academics and Punctuality in all the semesters.
- Selected as the only student to work as an intern under Ph.D. professors at the University of Dallas.
- Secured Gold Medal in International Maths Olympiad.
- Stood as Top 1% in receiving the scholarship for Nanodegree from Udacity.
- Performed as one of the best student of AppliedAI and successfully completed all the assignments within the deadlines.

#### **EDUCATION**

#### Gandhi Institute of Engineering and Technology

Major in B.Tech Computer Science and Engineering <u>CGPA</u>: 9.65

# Sri Chaitanya Educational Institution

Major in Mathematics, Physics, Chemistry, Computer Science <u>CBSE</u> : 91%

# Sacred Heart School

<u>ICSE</u>: 87%

#### **Personal Details**

- Languages: English, Telugu, Hindi, Oriya.
- Address: Infront of VK Function Hall, Rayagada, Odisha.

I hereby declare that the information furnished above is complete and true to the best of my knowledge. *G Yeshwant Kumar.* 

Gunupur, India [2018 - 22]

Vizag, India [2016 - 18]

Rayagada, India