

TAVANESH SHETTI

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Looking for AI /ML / Data Scientist jobs across India

Aspiring Data Scientist eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Clear understanding of analysis of Data, Data modeling and coming with solid mathematics background, programming skills. Motivated to learn, grow and excel in Artificial Intelligence industry.



Professional Summary

- Strong Mathematical foundation and good in **Statistics, Probability, Calculus and Linear Algebra**.
- Experience of **Machine learning algorithms** like **Simple Linear Regression, Multiple Regression, Polynomial Regression, Logistic Regression, SVM, kNN, Naive Bayes, Decision Tree, Random Forest, AdaBoost, Gradient Boosting, XGBoost, K-fold cross validation, Grid Search, Random Search**.
- Skilled in **Minimizing the cost function** based algorithms like: **Gradient Descent, Stochastic Gradient Descent and Batch Gradient Descent** and **Regularizing Linear Models** with the help of **Ridge, Lasso and Elastic Net**.
- Good knowledge of **Clustering algorithms** like **K means, Agglomerative Hierarchical Clustering, Divisive Hierarchical Clustering, DBScan, Association Rule learning** and **Dimensionality Reduction** like **PCA, LDA**.
- **Feature Engineering in Python** – Missing value treatment, outlier handling, data transformation, **Feature Selection** and reshaping data using Python packages like Numpy, Pandas and Scikit Learn.
- **Data Visualization techniques** with help of **Matplotlib, Seaborn and Tableau**.
- **Good knowledge of Deep Learning (DL)** and hands-on with **Neural Network Architecture, Loss Function, Cost Function, Optimizers, Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN)** and **Recurrent Neural Networks (RNN), LSTM**.
- Skilled in libraries like **Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn, Tensorflow, Keras, OpenCV and NLTK**.
- Basic Understanding of **Computer Vision techniques** like **Image pre-processing, Image Segmentation, Object detection, Object recognition, Object tracking**.
- Basic Understanding of **Natural Language Processing (NLP)** techniques like **tokenization, stemming, lemmatization, Text Analysis, Matrix TFIDF and word2vec**.
- Hands on Experience in working with **Dockers, Containers, GPU, multiple GPU environment** and **Automatic Mixed Precision techniques**.
- Experience in working with **MySQL** database using **SQL** and basic knowledge of **MongoDB**.
- Basic knowledge of **Amazon Web Services (AWS) Cloud Computing**.
- Good knowledge of **Google Cloud Platform (GCP)** and working with **VMs and Servers**.
- Self-motivated team player with good communication and presentation skills.
- Good analytical and problem solving skills.



Technical Skills

- **Programming Languages:** Python, Machine Learning, Deep Learning, Artificial Intelligence, Numpy, Pandas, Sklearn, Tensorflow, Keras, OpenCV, CuDF, CuML, NLTK and Spacy
- **Databases :** MySQL, Basic knowledge in MongoDB
- **Visualization Tools and Libraries:** Basic understanding of Matplotlib, Seaborn and Tableau
- **Platforms and Misc.:** Anaconda, Jupyter Notebook, Google Colab, Spyder IDE, Pycharm, Windows XP/ W10, Mac-OS

Achievements

- Received scholarship from **VIDYA POSHAK**, which is being given to poor and meritorious students.
- Received **HCL SPOT Award** for Qualitative Deliverables.

Education

2012-07 - **Bachelor of Engineering: Mechanical Engineering**
2016-06 Shridevi Institute Of Engineering And Technology - Tumakuru

- Graduated with aggregate of **80.97%**

2010-06 - **Pre-University: Science**
2012-05 JSS Pre University College - Dharwad

- PU passed out with **70%**

2007-06 - **High School**
2010-05 KLE CBR School - Athani

- SSLC/10th passed out with **89.28%**

Certifications

2020-07 **Advance Data Science course with Hands-on GPU from Netzwerk Data Science Academy an ISO certified institute**

2020-08 **Fundamentals of Deep Learning for Computer Vision from Nvidia**

2020-05 **Tableau Masters from iNeuron.ai**

2019-11 Create Tomorrow with **Data Science and Machine Learning** from **AWS**

Data Science Projects

1. Road Lanes and Ongoing Cars Detection

Tools and Technologies used: **Python, Numpy, CNN, OpenCV**

Description:

- This project is executed to detect real time road lanes and ongoing cars
- Object detection is done using **OpenCV** library and vehicles are detected by **HaarCascade** file in **Jupyter IDE**

2. YOLO (You Only Look Once) Object Detection

Tools and Technologies used: **Python, Numpy, Matplotlib, CNN, OpenCV**

Description:

- Implemented **YOLO object detection** algorithm to detect the objects in a given image and video
- Used **Darknet Architecture** with pretrained weights to build model
- Object localization by drawing the best bounding box for all the objects in an image

3. Pneumonia detection

Tools and Technologies used: **Python, Numpy, Matplotlib, CNN, OpenCV**

Description:

- Built an end-to-end classification methodology to predict the Pneumonia in Chest X-Rays
- Used State of art CNN architectures to validate data

4. Sentiment Analysis of Yelp Reviews

Tools and Technologies used: **Python, Numpy, Matplotlib, RNN, LSTM, NLTK, Word2Vec**

Description:

- Goal is to build a sentiment analysis model that predicts whether a user liked a local business or not, based on their review on Yelp
- Reviews were vectorized, tokenized and fed to the model to analyse the sentiment

5. Google Street View House Numbers Detection

Tools and Technologies used: **Python, Numpy, Matplotlib, CNN, OpenCV**

Description:

- The objective of project is to recognize the house numbers in the images as multi digit classification by CNN
- Used **Computer Vision** techniques to pre-process & transform image

6. Sensor Reading from a wall-following Robot

Tools and Technologies used: **Python, Pandas, Numpy, Matplotlib, CNN, OpenCV**

Description:

- This project focuses on stability of Robot while its navigating, using simple Deep Learning concepts
- Dataset is preprocessed using Pandas and Numpy libraries then build model to predict movement of Robot



Work History

2018-09 - Current	Engineer HCL Technologies, Bangalore, Karnataka
2017-03 - 2018-07	Engineer Modular Technologies, Pune, Maharashtra



Extra Curriculum

- Attended workshop on **ROBOTICS** conducted by **ROBOGENESIS** Company.
- Attended workshop on **QUADCOPTERS** conducted by **AGRAGAMI** Company.
- Attended workshop on **Build A.I. ChatBot** conducted by **theMAD** Academy.



Personal Details

- **DoB** : 4 Apr 1994
- **Address** : #546/1, Vijayabharati Nilay, Near KVG Bank, Mangasuli, Kagwad, Belagavi - 591234
- **Passport** : Yes (P7069009)
- **Languages Known** : English, Hindi, Kannada, Marathi and German A1