# PRADEEP KUMAR

Mobile: 07435387755
Email: pradeepkumar5267@hotmail.com
https://www.linkedin.com/in/pradeep-kumar-a31681a3/

Experienced Data Science engineer and python developer whose adept in all stages of data science life cycle. Knowledgeable in Machine Learning, Data engineering and NLP. Bringing forth expertise in rapid prototyping, development, debugging of ML systems. Seeking an exciting and challenging professional career in software industry. Keen to join a fast moving tech environment.

## EXPERIENCE

### Assistant systems engineer, Tata Consultancy Services Ltd                 Aug 2020 – Sept 2021

- Designed, developed, and modified software systems and custom components using Python used by Equifax and its clients for credit risk scoring.
- Efficiently reduced data extraction from files using python, reducing total work hours from 17 hours to 4 hours.
- Developed and implemented machine learning and deep learning models using xgboost and TensorFlow.
- Liaised with multiple teams to ensure smooth and timely completion of client deliverables.
- Participated in the review meeting with on-site & offshore Team.
- Involved in using agile methodology

### Freelance data science consultant, Pitambari electrotech Ltd                 Dec 2019 – Apr 2020

- Developed a custom dataset by collecting, cleaning, persisting and merging multiple datasets by leveraging Apache Airflow.
- Fine tuned a BERT and InferSent model using the developed dataset for use in a chatbot
- Developed APIs using flask to consume the deployed models.

### Data Science Engineer intern, HelloSivi software labs Ltd                 Apr 2019 – Oct 2019

- Developed image processing scripts using OpenCV in Python 3 for background removal using various 2D convolution filters (Gabor kernels) and image processing techniques.
- Implemented Deeplabv3 model for semantic segmentation, foreground isolation and adding tags to images
- Experimented with Word2vec, GloVe and BERT embeddings to determine the best model embeddings for the business requirement.
- Developed and implemented data pipelines using Apache Airflow and tracked ML experiments using MLFlow.
- Worked in cross-functional team for increased cooperation among the different tasks.
- Participated in the review meeting with the founder for updates about the product in development.

### Operations and process associate, MK Transport Ltd                 Aug 2018 – Mar 2019

- Developed a cloud first approach using Google cloud services for recording daily expenditure and to ensure 27/4 data availability.
- Developed Python scripts to automatically extract and record expenses from E - receipts to excel sheets.

## SKILLS

- Python 3, Linux, Bash
- Machine learning, SciKit-Learn, NumPy, Pandas, XGBoost
- Deep Learning, TensorFlow 2, Pytorch, HuggingFace
- Natural Language Processing, Gensim, Spacy, NLTK
- Data engineeering, Apache Airflow, Jenkins, MLFlow
- Source control, Git, MLFlow
- database management, SQL, MongoDB, PyMongo, PostgreSQL
- programming tools, Jupyter, Anaconda, Google Colab, VSCode
- Data visualization, Seaborn, Matplotlib
- Data mining, BeautifulSoup, Scrapy
- Backend development, Flask, SQLAlchemy
- Project management, Jira, Zoom
- Team player, presentation and communication skills, multitasking

## LANGUAGES

English, Hindi, Tamil, Marathi.

## EDUCATION

### MSc Artificial Intelligence, University of Essex                Sept 2021 - Sept 2022

Research Project: Modelling the sentimental correlation of multi-modal information.
To predict the sentiment of a user using BERT and multi modal information (video, audio and text).

## PROJECTS

### Crop weight predictor, University of Essex

- Performed data cleanup and feature engineering using 4 different datasets and merged them into one dataset.
- Trained an ensemble model to predict weather features and then use those features as input for the main dataset.
- Trained multi regressor ensemble models to predict 4 features of crop using feature engineered dataset and determine the best model using R2 metrics.

### Web application, Udacity

- Created a web application using Flask framework and implemented CRUD functionality and 3 rd party authentication option using Google sign-in.
- Hosted on a Linux AWS Lightsail instance and performed basic server hardening.

## PROFESSIONAL DEVELOPMENT

- Machine Learning by Stanford University on Coursera.
- Full Stack Nanodegree by Udacity.
- Machine Learning for Business Challenges by AWS training and certification.
- Data analysis and Machine Learning using Python on Udemy.
- MongoDB for python developers(M220P) by MongoDB University.

## EXTRACURRICULAR ACTIVITIES

- Member of electrical division and chassis division of team RGIT Racing which took part in SUPRA India formula SAE in 2016.
- Editor of college technical magazine Illuminar for the academic year 2016 - 17.
- Won Special Mentions award in Model United Nations held in Rajiv Gandhi institute of technology in 2016.
- Volunteered for a medical camp organized by Samast Mahajan NGO.
- Volunteered for various events organized or supported by SOCH (Social Organization for Conserving Humanity).

## INTERESTS

I enjoy keeping fit by going to the gym. I also like playing video games.

## REREFENCES AVAILABLE UPON REQUEST