Bipin Kumar

Project Scientist
IIT Delhi

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Links

LinkedIn:// **bipin-patel**

Skills

OS
Linux, Windows

LANGUAGES
Python, MATLAB

DATABASES
SQL

OTHERS
Pycharm,
Jupyter,Colab

Coursework

Deep Learning
Machine Learning
Neural Networks
Non linear optimization

Education

2015-2021
PH.D. IN SIGNAL PROCESSING
IIT Delhi
CGPA : 7.7/10

2012-2014
M.TECH IN MECHATRONICS
IIEST, Shibpur
Percentage: 80.8%

2007-2011
B.E IN ETC
CSIT Durg
Percentage: 71.3%

Experience

JAN 2020-NOW **IIT Delhi** **Project Scientist**

Involved in data preprocessing, feature extraction, data visualisation, data analytics, developing machine learning and deep learning models.

Python, SQL, Tensorflow, Pytorch, CNN, NLP, CV

JAN 2015- DEC 2020 **IIT Delhi** **Full time Reserach Scholar**

Focused on developing machine learning and deep learning models.

Python, Tensorflow, Pytorch, Computer vision, Natural language processing

Project

2021-NOW **Multi-label sentiment analysis using transfer learning**

- Involved in developing a multi-label classification framework for the problem of aspect-based sentiment analysis using transfer learning.
- Involved in text preprocessing, feature extraction utilizing BERT and fine-tuning.
- Involved in building a deep learning model for multi-label sentiment analysis.

Natural language processing, BERT, Tensorflow

2020-2021 **Optical character recognition**

- In this project, we built a deep learning model to extract text in tabular format from scanned image of medical report.
- Involved in data labelling, data pre-processing and using the corpus create spell check.
- Build a deep learning model for table and header detection.

Opencv, Natural language processing, Tensorflow, labellmg

2018-2020 **Voice Activity Detection and Speech Enhancement Using Deep Learning Techniques**

- The main objective of this project was to implement a robust VAD system for low SNR environment.
- Build a model which integrates speech enhancement and VAD using multi-task learning.

Speech processing, Tensorflow