

Krishna Tibrewal

96470-32330 | [E-mail](#) | [Website](#) | [GitHub](#) | [LinkedIn](#)

EDUCATION

National Institute of Technology Karnataka

M.Tech in Electrical and Electronics Engineering; GPA: 7.23

Surathkal , KA

Aug. 2019 – July 2021

Dr.B.C Roy Engineering College

B.Tech in Electrical Engineering; GPA: 6.93

Duragapur, WB

Aug. 2012 – July 2016

EXPERIENCE

Graduate Teaching Assistant

National Institute of Technology Karnataka

- Co-Instructed the Even Semester Machine Learning Class (EE871)
- Co-Instructed the Odd Semester Optimization Class (EE807)

Aug 2020 – July 2021

Surathkal, KA

Artificial Intelligence Research Assistant

National Institute of Technology Karnataka

- Designed and developed deep learning pipeline for facial emotion detection
- Created a dataset of faces of students in campus
- Assisted with writing a research proposal
- Wrote a book on application of deep learning in emotion detection

Jan 2020 – July 2021

Surathkal, KA

PROJECTS

EmoNet

- Developed an end-to-end emotion recognition system based on RAF-DB Dataset
- Improved the previous recorded accuracy by 8%
- Created a [WebApp](#) for detecting emotions with Streamlit

FlowerNet

- Used transfer learning for record accuracy on Oxford-102 dataset
- Achieved 95% accuracy in 2 epochs for ResNet18 architecture
- Built the whole pipeline in FastAI library

Few Shot Learning

- Designed a Cricket vs Baseball Classifier with 10 images for each class
- Achieved an accuracy of 80%
- Implemented a novel algorithm for this classifier

PUBLICATION

Emotion Detection in Static Images

- Krishna Tibrewal, Jora M. Gonda, "Emotion Detection in Static Images," (Under Review)

A book on Emotion Analysis using Deep Learning

- Krishna Tibrewal, Jora M. Gonda

TECHNICAL SKILLS

Languages: Python, R

Frameworks: PyTorch , Fastai , Streamlit

Tools: Git, Google Cloud Platform, VS Code, Jupyter , Latex

Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn