

OBJECTIVE

Looking for UG research opportunities in the field of Deep Learning. Fairly experienced in machine learning, deep learning and computer vision. Worked with TensorFlow, Keras, OpenCV, dlib, Numpy, Pandas, Matplotlib, Scikit-learn. Can code fluently in Python(2/3), C++, C and MATLAB/GNU Octave. I also have a bit of background in Natural Language Processing and Competitive Data Science.

PROJECTS



DriveSmart

AUG 2018

A smart system for cars that alerts the driver with visual cues and audio alerts when the driver gets distracted from the road or is drowsy. Used TensorFlow, OpenCV and dlib. Currently in progress.



T. A. L. K.

SEP 2018

Working on a startup idea in a team of three members on an idea that promises something that has never been achieved before. Using recurrent neural nets in combination with advanced conducting fibres and other hardware sensors as the core technologies. Most of the work is under NDA at this stage.



FaceSearch

JUL 2018

Created a command-line tool that takes an image, detects faces in it, lets user select one and then tries to establish identity of the person by performing Google reverse Image search on the face. Used OpenCV. Implemented in Python



Emotion Recognition

MAR 2018

Recognizes facial expressions using a webcam, live in the browser. Used keras with Tensorflow backend for training the model. The frontend is built using Nodejs. The frontend is built by Ujjawal Jaiswal, a fellow member of the Web Development team at Cyber Labs.

CERTIFICATIONS

Advanced Machine Learning Specialization

HSE - National Research University on Coursera

1. Introduction to Deep Learning (with Honors)
2. How to Win a Data Science Competition: Learn from Top Kagglers (with Honors)

Deep Learning Specialization (5/5 Courses)

deeplearning.ai on Coursera

Machine Learning

Stanford University on Coursera

LANGUAGES

Python 3 | Python 2 | C++ | C | Matlab | GNU Octave | CSS

EDUCATION

Indian Institute of Technology (Indian School of Mines), Dhanbad

2017 - 2021

BTech. Electronics and Communication Engineering

PES Modern College of Arts, Science and Commerce, Shivajinagar, Pune

2015 - 2017

11th & 12th Std. (Science)

POSITIONS OF RESPONSIBILITY

AI Team Member, Cyber Labs

DEC 2017 - PRESENT

A core member of the AI team of Cyber Labs, the official cyber society of IIT (ISM), Dhanbad. Cyber Labs is the initiative of IIT (ISM) students on the footsteps of MIT Media Labs, MIT. The team focuses on working on various projects that use ML, DL or in general, any field of AI.

Content writer, BPB online

SEP 2018 - PRESENT

I write introductory articles on various topics in AI for BPB publications, the asia's largest publisher of computer books from last 58 years.

Blogger, ML Endeavours

APR 2018 - PRESENT

Personal blog. I blog about created projects and machine learning, in general.

Course Mentor, Coursera

JUN 2018 - PRESENT

Mentoring the course "Introduction to Deep Learning" by HSE - National Research University on Coursera.

SKILLS

- Machine Learning
- Deep Learning
- Convolutional Neural Networks
- Recurrent Neural Networks
- Computer Vision
- Competitive Data Science
- Regex
- Keras
- TensorFlow
- OpenCV
- dlib
- Git, Linux
- Scipy stack, Pandas, Matplotlib
- Scikit-learn, XGBoost