

Piyush Tiwary

A-534 Boys' Hostel IIT Patna

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EDUCATION

Bachelor of Technology	8.25/10
Electrical Engineering, IIT Patna (5th Semester)	2017-21
Intermediate/+2	79.84%
Loknete Vyankat Rao Hiray College, Nashik (MSBE)	2017
Matriculation	10.0/10.0
Kendriya Vidyalaya CRLY, Solapur (CBSE)	2015

EXPERIENCE

Crio Summer of Doing - 2019	Remote
Crio.Do	May 2019 - June 2019
<ul style="list-style-type: none">Developed Back-end of Q-Eats (a food Ordering App) using Spring framework in Java.Learnt and implemented many Industry related tools/technologies like - REST APIs, MongoDB, Caching, Multi-threading, Docker and RabbitMQ.Made an <i>Order Page</i> for QEats in the Capstone Challenge enabling user to see his/her orders and provided various functionalities.	
Research & Development Intern, VideoKen	Bangalore
Guide: Prof. Manish Gupta, Co-founder VideoKen	May 2019 - July 2019
<ul style="list-style-type: none">Worked as a part of R&D Team and explored different methods of Speaker Diarization.Studied & Implemented UIS-RNN in <i>Tensorflow</i>.Made a primitive model able to diarize 2 speakers with maximum delay of ~30 seconds.This model will be deployed to diarize "Interview" type of audios.	
Hybrid Classifier for Smart Agriculture Cyber Physical System	IIT Patna
Guide: Prof Sudhir Kumar, IIT Patna & Prof Sajal .K. Das, Missouri University	Summer 2018
<ul style="list-style-type: none">Worked on Berkeley's Intel Lab Dataset to Localize the positions of wireless sensor nodes.Implemented a Hybrid Classifier to classify and predict location of each sensor using various combinations of Classifiers like Decision Tree, Random Forest, k-Nearest Neighbor and SVM.Achieved an overall 95% accuracy and 1.16m localization error.	

PUBLICATIONS

- Ankur Pandey, **Piyush Tiwary**, Sudhir Kumar, and Sajal K Das. A hybrid classifier approach to multivariate sensor data for climate smart agriculture cyber-physical systems. In Proceedings of the 20th International Conference on Distributed Computing and Networking, ICDCN '19. ACM, 2019. "[click here to view](#)"

COURSES

- Foundations of Machine Learning, Advanced Machine Learning, Introduction to Data Science, Data Structures & Algorithms, Computational Complexity, Human Computer Interaction, Linear Algebra, Complex Analysis, Partial Differential Equations

ACHIEVEMENTS

- Secured a Global Rank of **60** in Codechef July Long Challenge'19.
- Specialist(Blue) on Codeforces and 4-star(Purple) on Codechef.
- Ranked in top 5000 on UVa Online Judge.
- Secured **All India Rank 4880** in JEE Advanced 2017 among **150,000** candidates.

PROJECTS

History Scrapper

Google Chrome Extension

July 2019 - Present

Tensorflow, Flask, Python

- Building a Chrome extension which provides user with their Browsing history and summary.
- The aim is to deploy Deep Learning techniques to predict most likely site the user is going to visit.
- Built the backend of the extension using **Flask** framework in python.

Notes Seperator

Developer Student's Club

May 2019 - June 2019

Tensorflow, Python

- Developing an app for students of IIT Patna which can automatically detect whether a given image is of someone's notes or not and will suggest you to delete them.
- Implemented different CNN architectures such as *LeNet*, *AlexNet*, *VGGNet*, *GoogleNet* and *ResNet* for classification.

Crime Predictor

Guide: Prof Sourav Kumar Dandapat, CSE Dept, IIT Patna

Jan 2019 - April 2019

Sklearn, Python

- Project to Forecast crimes in the city of California using OSN dataset.
- Using various ML algorithms (Decision Tree, Random Forest, SVM, Naive Bayes, etc) to see which one best fits the data most accurately.

Celvika

First Year Individual Project

Jan 2018

Tensorflow, Python

- Used the concept of **LSTMs** and **RNNs** to make a Real time primitive chatbot capable of doing conversation through GUI (like command line or shell).
- The bot is modeled using Tensorflow's seq2seq module with attention. The architecture uses 3 layers which can be configured to be either LSTM or GRU based.

TECHNICAL STRENGTHS

- **Programming Languages:** C/C++, Python, Haskell, Bash, Java.
- **Algorithmic Toolbox** - *University of California, San Diego*
- **Database:** MySQL, MongoDB.
- **Operating Systems:** Windows, Linux - (Ubuntu, Fedora, Arch).
- **Others:** Docker, RabbitMQ, \LaTeX , Matlab, Octave, Arduino, R.

POSITIONS OF RESPONSIBILITY

- **Project Mentor** (*Developer Students Club IIT Patna (powered by Google)*): Conducted classes and workshops for students to make them familiar with Deep Learning and tools like tensorflow and pytorch..
- **Coordinator, Events and Operation Committee - Celesta'19** (*Technical Fest of IIT Patna*): Working in a team of 4 to coordinate and manage all the events of Celesta.
- **Badminton Coordinator** (*IIT Patna*): Lead the Badminton team of IIT Patna in various Sports tournament. Represented IIT Patna in **51st** (at IIT Madras) and **52nd** (at IIT Guwahati) **Inter IIT Sports Meet** along with 4 other teammates.