INTERNSHIPS _

Software Intern, MAQ Software

(May-July'19)

MAQ Software delivers innovative software solutions for Fortune 500 companies

- Worked on the localization of Pehla Class which is based on Onecourse, an award-winning educational Android
 application
- Developed Python scripts to automate application localization for supporting Hindi language
- Worked on the UI of the CCI, a learning Android application for children

Software Development Intern, GreatFour Systems

(December'18)

GreatFour Systems is an innovative product development company specializing in automation solutions

- Tested limitations of tools **PDFlib**, **Tabula** and **Camelot** for detection of tables in PDF file
- Designed an OpenCV algorithm for detection of tables in Medical Leaflets

Machine Learning Intern, SmartMedics

(May-July'18)

SmartMedics is a technology driven healthcare platform integrating offline and online access to healthcare

- Worked on developing a health assistant that uses real data, Machine learning and Neural Networks to predict
 the specialist a patient must consult based on the data entered by him
- Used **Python NLTK** library for **Natural Language Processing** to process the problem description entered by patient and extract important details from text
- Designed a **Django** based Web application for doctors

Toppr is an online learning platform, personalizing K-12 education

- Helped building high-quality learning content like questions and concepts
- Improved the quality of content by analysing and making them error-free
- Helped team in building various tests by analysing current curriculum and previous year question papers

COURSE PROJECTS

Guide: Prof. S.Sudarshan

Online Evaluation Web Application

Database and Information Systems

(Autumn'18)

- Created **ReactJS** web app for students, instructors and Teaching Assistants
- Integrated **SSO Login** of IIT Bombay in the app
- App displays marks, question paper and answer sheet of every exam to student and sends the queries of student regarding marks awarded to particular answer to Teaching Assistant and Instructor
- · Provided instructor and Teaching Assistant with feature of scanning and evaluating answer sheet of students
- App displays notification to instructor and Teaching Assistant regarding students' query

Neural Networks Library

Artificial Intelligence and Machine Learning

(Autumn'19)

Guide: Prof. Ganesh Ramakrishnan

- Developed a deep-learning library from scratch, having modules of Fully Connected Layer, Convolution Layer,
 Pooling layer along with an appropriate loss function for backward propagation
- Used the built library to design a neural network architecture and tested it on MNIST and CIFAR-10 datasets

Python based Electrical Circuit Simulator

Software Systems Lab

Guide: Prof. Kavi Arya (Autumn'17)

- Developed a compact electrical circuit simulator using Python and Jython for creating a Java-based GUI
- Used functions from SymPy and SciPy to solve the differential equations
- Generated a graph between various parameters based on the input signals using Matplotlib

Compiler for a pointer language with C like semantics

Compilers (Spring'19)

Guide: Prof. Uday Khedkar

- Implemented lexical analyser, abstract syntax tree and symbol table for effective translation to assembly code
- Provided support for boolean and arithmetic operators, nested conditional statements and function calls

Railway Signal Controller

Guide: Prof. Supratik Chakraborty

Digital Logic Design (Spring'18)

(2016)

• Implemented and simulated the model using VHDL with backend implemented on C

- Used FPGALink library for transfer of data via a USB cable between the host and the FPGA board
- Implemented **TEA encryption** to secure the messages sent over channel

Tetris Game Programming Paradigms Guide: Prof. Amitabha Sanyal (Spring'17)

• Built a graphical game of **tetris** using the **Racket** programming language

• Helped in organizing **CURED**: a diabetes awareness campaign

- Implemented heuristic algorithm to hint the player which move should be played at each turn to reduce number of empty spaces in accumulated blocks
- Used teachpack universe.rkt to provide functionality for creating interactive and graphical programs

ACADEMIC ACHIEVEMENTS AND SCHOLARSHIPS Secured 98.65 percentile in JEE Advanced (IIT-JEE) out of 150,000 candidates Recipient of the NTSE (National Talent Search Examination) Scholarship by N.C.E.R.T New Delhi Secured All India Rank 40 in International Olympiad of Mathematics Secured District Rank 1 in Maharashtra Talent Search Examination	(2016) (2014) (2012) (2012)
EXTRACURRICULARS	
 Participated in Kavyasandhya General Championship (Inter Hostel poetry recitation competition) Completed an intermediate level Bootcamp on Entrepreneurship Successfully completed one year as a Bandminton Player under National Sports Organisation Runner-up in music video competition of Freshmen Cultural festival, IIT Bombay 	(2017) (2017) (2016-17) (2016)