

# Aditya Sawant

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Azad Hall of Residence, IIT Kharagpur, West Bengal, India- 721302

## EDUCATION

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### Indian Institute of Technology, Kharagpur

BTech, 3rd Year Undergraduate, Computer Science & Engineering: CGPA: 9.62/10.0

West Bengal, India

Expected June 2021

### Dempo Higher Secondary School of Science Trust

Goa Board Higher Secondary School Certificate Examination(GBHSE) - 95.1%

Miramar, Goa, India

April 2015 - March 2017

### Sharada Mandir School

Indian Certificate of Secondary Education(ICSE) - 97.1%

Miramar, Goa, India

March 2015

## SKILLS

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- **Languages:** C, C++, Java, Python, MySQL, SQL Plus, LaTeX
- **Technologies:** GitHub, UIPath, IBM Cloud, Android Studio, Netbeans, SolidWorks
- **Libraries:** Open CV, NumPy, Pandas, Scikit-learn, Matplotlib
- **Operating System:** Windows, Linux

## EXPERIENCE

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### Tangentia

Intern - RPA Development & explored IBM Cloud Services

Goa, India

May 2019 - June 2019

- **Machine Learning:** Used IBM Watson Studio(IBM Cloud Service) to create a ML Model using Logistic Regression to predict the survivors of the Titanic. Achieved a 72.72% accuracy on the test data available on Kaggle.
- **Twitter Tweets Sentiment Analysis:** Used Zapier to create a workflow(zap) which gets tweets from twitter filtered for a particular person (for example @elonmusk) and uses natural language understanding(IBM Cloud service)to analyze their sentiment and stores them in google sheets.
- **Indian Outfit Recognizer:** Used the IBM Cloud Watson Studio along with its Visual Recognition Service to create an Outfit Recognizer Model which was able to classify Indian clothes into classes such as Kurtas, Sherwanis, Sarees, Lehngas etc and tried to integrate it with Android Studio.
- **Flower Retailer Chatbot:** Used the Watson Assistant service to create a chat bot for a flower retailer which is capable of answering questions related to locations and timings of stores and can also recommend flowers for an occasion.

### Rosenberger Electronic Co. (India) Pvt. Ltd

Intern

Goa, India

4th June 2018 - 16th June 2018

- **Role & Responsibilities::** Explored the state-of-the-art manufacturing processes for optic fibres, microwave antennas, and base station antennas for 4G cellular communication. Worked on reducing dipole wastage in base station antennas.

## PROJECTS

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### Verilog Design of Single Cycle RISC Instruction Set Architecture: (Term Project for Computer Architecture) July'19-Oct'19

Guide: Prof Rajat Subhra Chakraborty

- Designed a mini size 32-bit processor Instruction Set Architecture (ISA) on Reduced Instruction Set Computer principle using Verilog.
- The design involves building an Instruction Fetch, a Decode, an Arithmetic Logic Unit, a Branching Unit, a Load or Store Unit and a Control Unit.

### Tiny C Compiler Design: (Term Project for Compilers Laboratory)

July'19-Oct'19

Guide: Prof Partha Pratim Das

- Designed the lexical analyser, parser and implemented the machine-dependent code generator( three address code) of reduced C language using yacc and flex.

Guide: Prof Sudip Misra

- Created a desktop based application that helps the Department Secretary manage the department information. An SRS for the same was also created. Appropriate Use Case and Sequence diagrams were created.
- Various use cases like Student Semester Registration, Account Management , GPA Calculation ,Course Information , Inventory Management ,Instructor Information etc were implemented.
- Database managed in MySQL and application was coded in java.

**Winter Workshop(IEEE cretified) Technology Robotix Society,IIT Kharagpur on Image Processing**

Dec'18

- Blob detection and subsequent control of bot using Arduino.

**RELEVANT COURSEWORK**

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COMPLETED: Programming and Data Structures\*, Algorithms-1\*, Discrete Structures, Symbolic Logic, Software Engineering\*, Formal Language and Automata Theory, Probability and Statistics, Switching Circuits and Logic Design\*, Introduction to Electronics\*, Signals and Networks\*, Linear Algebra, Cryptography and Network Security, Computer Organization and Architecture\*, Compilers\*, Algorithms-II

ONGOING: Operating Systems\*, Computer Networks\*, Machine Learning, Database Management Systems

\* indicates Laboratory component present

**ACHIEVEMENTS & EXTRACURRICULAR**

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- Awarded the Future Research Talent Award to pursue a research internship at The Australian National University in the year 2020.
- Awarded the DAAD-WISE scholarship to pursue a research internship at TU Braunschweig in the year 2020.
- Scored a perfect 10(SGPA) in Autumn semester of freshman year.
- "Best Fresher" in Poles Apart, Kshitij 2018 at IIT Kharagpur Annual Techno Management Fest.
- Reporter at Scholars' Avenue (Student media body at IIT Kharagpur).
- Certificate of Appreciation in Tennis by TJ Hyman (Internationally renowned US coach) at IIT Kharagpur.
- Member of the National Sports Organization (NSO) Tennis under the Government of India (August 2017)
- Secured State Rank 3 in HSSC Board Examinations 2017 with 100/100 in Computer Science
- Secured State Rank 2 in ICSE Board Examinations 2015 with 100/100 in Mathematics
- Holds a Brown Belt in Karate.

**CERTIFICATIONS**

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- UIPath Advanced Training
- Orchestrator 2018.2 Training
- RPA Starter Training
- Python 101 for Data Science
- Data Analysis with Python

**COMMUNICATION SKILLS**

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English, Marathi, Hindi, French(DELF A1), Konkani