Aditya Sawant

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EDUCATION

Indian Institute of Technology, Kharagpur   West Bengal, India
BTech, 3rd Year Undergraduate, Computer Science & Engineering: CGPA: 9.62/10.0   *Expected June 2021*

Dempo Higher Secondary School of Science Trust   Miramar, Goa, India
Goa Board Higher Secondary School Certificate Examination(GBHSE) - 95.1%   *April 2015 - March 2017*

Sharada Mandir School   Miramar, Goa, India
Indian Certificate of Secondary Education(ICSE) - 97.1%   *March 2015*

SKILLS

- **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

Tangentia   Goa, India
Intern - RPA Development & explored IBM Cloud Services   *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, Lehangas 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   Goa, India
Intern   *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

Verilog Design of Single Cycle RISC Instruction Set Architecture: (Term Project for Computer Architecture)   July'19-Oct'19
Guide: Prof Rajat Subhra Chakraborthy

- 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.

University Department Information System: (Term project for Software Engineering) Jan'19-April'19
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

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

- Scored a perfect 10(SGPA) in Autumn semester of freshman year.
- "Best Fresher" in 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

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

COMMUNICATION SKILLS

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