AAYUSH SUGANDHI (2017UCS0031)

ACADEMIC QUALIFICATIONS

Year	Degree/Examination	Board/University	%/CGPA
2017-Present	B. Tech. in Computer Science and Engineering	Indian Institute of Technology Jammu	8.38/10.0
2016	Class XII	Madhya Pradesh Board of Secondary Education	88.2%
2014	Class X	CBSE	10.0/10.0

ACADEMIC ACHIEVEMENTS AND SKILLS

Scholastic Achievements	• Achieved National Rank 1 in the First round, for a given problem statement under software category of Smart India Hackathon, organized by MHRD • Cleared Pre Regional Mathematics Olympiad in Class XI • Represented Dhar City in Division-Level Chess Championship • Achieved 3rd position in the Hackathon **"Innovate for IIT Hackathon"** held at the Institute.
Technical Skills	• Languages: Python, C, C++ • Platform: Linux, Windows • **Misc**: Machine Learning, Web Development (Html, CSS, JQuery, Bootstrap, JavaScript), App Development

INTERNSHIPS

IIT Bombay	• Implemented Zero-Shot Image Tagging using Hierse at Indian Institute of Technology Bombay on May'19-July'19. • Read various Research Paper about Zero-Shot Image Tagging. • Tested our code on various images and summarized our code in a short report.

PROJECTS AND PAPERS

Mess Review Web Application	• Developed **an AI-based Web App** that makes mess food reviews and analyzes the sentiments of reviewers as well as to detect sarcastic comments in order to assist the mess secretary. • Developed my own AI Model using **SVM and Logistic Regression**. The model attained the accuracy of more than 70% during testing. • The entire Web App was developed in a 48 hour time period during **"Innovate for IIT Hackathon"** and achieved 3rd position.
Listen What You Create(Music Generation App)(Ongoing)	• The goal of this project is to make a mobile application with an ML framework embedded in the backend that works on a dataset of music and generates new music based on the genre selected.
Website for Robotics Club	• Done the Front End of Website for the **Robotics club of IIT Jammu** using Bootstrap classes and libraries and add various JavaScript Animations.
Facial Recognition	• Used different Python Libraries like OpenCV and made a deep learning model which in real time perform facial recognition (BTech 4th Semester Project Course)
3 Level Password System	• Used different Python Libraries like **Tkinter** (GUI Library**), PIL(**Image Library**), Captcha**(For Captcha) and made 3 level password system 1) Plane Username 2) Image-Based GUI 3) Graph Captcha Based GUI.

Power train optimization (SIH)	· Came up with a **Software Solution** to optimize the PowerTrain of heavy load dumping trucks increasing their transmission efficiency and fuel efficiency and also gave a hardware solution significantly reducing the weight and increasing the efficiency with a mathematical simulation model.
Foot Step Power Generator	· Made a prototype device to convert Mechanical Energy of Footstep into Electrical Energy
Misc.	· Some more projects on **Machine Learning and Android Studio**.

POSITIONS OF RESPONSIBILITY

Election Commission Member	· Successfully conducted the election in the Institute in April 2019. · Coordinated with all the other members of the commission.
TNP Cell	· TnP Cell Coordinator from August 2019- Present
Others	· Cultural Team member for First INDUSTRY CONCLAVE of IIT Jammu · Outreach Team Member of Technunctus'19 (Technical Fest of IIT Jammu)

EXTRA CURRICULAR ACHIEVEMENTS

Dramatics Club	· Performed in street play under the MANTHAN International Street Play Festival · Performed a proscenium during our Cultural Fest. · Performed a proscenium on Independence Day.
Misc	· Cultural Management Team Member · Contributed to a few intra college events.

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