DAKSH JITARWAL
Course : **B.E. (Hons.)**, Electrical & Electronics, 2023
Email : f20190276@pilani.bits-pilani.ac.in
Mobile : 7568872747
CGPA : 6.38

ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	Navjeevan Science School	Board of Secondary Education, Rajasthan (RBSE)	94.6 %	2019
CLASS X		Sanskar International School	CBSE	10 CGPA	2017

Subjects / Electives	Pattern Recognition,Computer Programming,Internet of Things,Combinatorial Mathematics,Digital Design
Technical Proficiency	JavaScript,React.js,Node.js,Firebase,Flask,Python,Arduino,SQL,C++,Machine Learning

SUMMER INTERNSHIP / WORK EXPERIENCE

Data Analyst Intern, JSW Energy **Jul 2021 - Jul 2021**

- Worked on improving the combustion efficiency of coal in the Power Plant Division.
- Carried out research on coal properties and their effect on combustion and emission efficiency.
- Implemented a regression algorithm using Pandas and NumPy to predict the Sulphur and Nitrogen content in the emission fumes.
- Visualized the correlation between coal properties and efficiencies of different units using MatPlotLib.

Full Stack Developer, Lend2Mend Foundation **Mar 2021 - Apr 2021**

- Built the full-stack web application for blood donation and launched it to 700+ users.
- Helped raise and fulfill more than 100+ requests for blood and plasma.
- Implemented Google Maps API to track donors and SendGrid API to send emails.
- Hosted the web app on the Nginx server along with a custom CI/CD pipeline.

PROJECTS

Family Tree Fetcher - Web Development **Nov 2022 - Nov 2022**

- Developed an API that generates a user's family tree by scraping data from electoral roll websites.
- Utilized Puppeteer to scrape electoral rolls from different state websites.
- Leveraged Chrome Protocols to halt network requests and download PDFs.
- Employed Google Vision and Translated APIs to bypass captchas and extract text from images and translate it.
- Won the hackathon among around 1500 other participants by implementing this solution to the problem statement.

AquaCheck - Internet of Things **Nov 2022 - Dec 2022**

- Interfaced hardware sensors with ESP8266 module to measure different parameters of water in a water body.
- Used LoRa modules to enable communication between three different nodes(ESP8266) using the ESP-Now.
- Developed a website using Flask to monitor the pollution level using the data periodically relayed by the microprocessors to firebase.
- Utilized the Mac Protocol for communication between three ESP modules.

Boiler Efficiency Predictor - Machine Learning **Jun 2021 - Jul 2021**

- Trained a regression model using a dataset of 10000+ entries to predict Sulphur and Nitrogen content in the emission fumes.
- Implemented the model using NumPy and Pandas.
- Employed MatPlotLib to plot correlation graphs of coal properties and the efficiencies of various components.
- Achieved prediction accuracy of 0.9976 in implementing the algorithm.

COMPETITIONS

HackYourWay - All India Hackathon by BharatX **Nov, 2022**

- Winner of the 36-hour hackathon organized by BharatX, competing against more than 1500 participants

EXTRA CURRICULAR ACTIVITIES

Member of Art, Design and Publicity

- Worked to manage the BITS Pilani's Cultural and Technical Fests having a footfall of over 6000 people.
- Helped generate a combined outreach of over 1 lakh; successfully partnered with 3 YouTubersfor media presence.