Soumya Mittal

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Academic Qualifications

Year	Degree/Certificate	Institute	CGPA/%
2021 - Present	B.Tech.(CSE)	O.P Jindal University, Raigarh (C.G)	8.2/10
2021	CBSE (XII)	O.P. Jindal School, Raigarh (C.G)	89.4 %
2019	CBSE (X)	O.P. Jindal School, Raigarh (C.G)	89.4 %

Skills Summary

- ❖ **Languages:** C, Python, HTML, CSS, SQL, XML
- ❖ **Platforms:** Linux, Windows, Raspberry
- ❖ **Software Framework's/Others:** MySQL, Firebase, ML with Python, Data Analytics, TensorFlow, Internet of Things
- ❖ **Soft Skills:** Leadership, Public Speaking, Negotiation, Teamwork, Adaptability, Creativity

Experience

- ❖ **IBM Skills Build | AICTE Internship**   *(Aug 18th 2023 - Oct 03rd 2023)*
  - ▪ **Project Intern** | Internship brought by **Edunet Foundation**, leveraging IBM Skills Build Program on **Artificial Intelligence**.
  - ▪ Developed a **sentiment analysis model** that can automatically classify restaurant reviews as positive, negative, or neutral.
  - ▪ The model will be developed using a supervised machine learning approach, and it will be evaluated using accuracy, precision, and recall.
  - ▪ **ML-Model Used:** Logistic Regression, Naive Baise Classifier, Random Forest Tree Classifier, Extra Tree Classifier, K-neighbours Classifier, Support Vector Classifier.

Projects

- ❖ **e – Krishak: (Team Project)** Android App | Website | IoT device   *(Ongoing)*
  - ▪ It is an **Institution's Innovation Council** Approved Innovation for providing high-quality solutions to the challenges facing the agricultural sector. IIC Details: **IIC-ID**: IR2023-837667 with **TRL Level: 4, MRL Level: 5** and **IRL Level:1**
  - ▪ Major components will be Crop/plant **disease identification**, **weather forecasting, pest detection** and **crop prediction**.
  - ▪ This prototype will help in reducing the indirect expenses of users(farmers), protect the crop/plant from any climatical incident & precaution from harmful disease.

- ❖ **Tech Learners: (Team Project – Build within 36Hr Smart India Hackathon 2023)**   *(Dec-2023)*
  - ▪ An **Android application** specially designed for the training of employees of an I-T company with the help of Artificial Intelligence.
  - ▪ Based on the inputs (Domain, preliminary knowledge & experience level) the pre-trained model of **OpenAI GPT 3 (Text-davinci-003)**, generates the personalized learning paths and **recommends** courses & video lectures. After the course completion the test (**with AI generated question**) are conducted.
  - ▪ Each user has its separate account & progress are shown on dashboard (**LMS like portal**).
  - ▪ Helped in increase of access of I-T education, decrement of challenges faced by I-T organization in employee training.

- ❖ **Pest Detection & Crop Prediction Model -** Website | IoT device   *(April-2023)*
  - ▪ Designed to detect the pest present in crop field using Pi-4 camera & provide a proper pesticide required for specific pest. And to predict the best suitable crop for Agricultural field based on Temperature, Humidity, pH of Soil, Rainfall of the Area.
  - ▪ Users also have the capability to capture images of pest & upload on website.
  - ▪ Model helped in reducing the Pesticide Dependency and tendency of pest to become pesticide resistance as the proper pesticide for the specific pest is being suggested with the help of web application.
  - ▪ Setup for Pest Detection includes Raspberry-pi4, Pi camera module, a button and a LED light along with groove pi Kit.
  - ▪ Setup for Crop Prediction includes Raspberry-pi4, DHT Sensor, Soil Moisture Sensor, along with groove pi Kit.

Achievements & Certifications

- **Team Lead & Finalist** of Yukti Innovation Challenge 2023 organized by MIC cell of MoE. Successfully declared as finalist & eligible to get financial assistance up to Rs. 10.00 lakhs after competing with **779 teams in Round 2**. Secured **1st position** in the Round 1 of with a **score 85.4 %**.
- **Team Lead & Finalist** of Smart India Hackathon 2023 organized by **AICTE & MHRD**.
- Invited to participated in the **20th IIC Regional Meet** held at **Banaras Hindu University**, organised by AICTE & MoE.
- **Selected as top Innovator** to attend Innovation, Design & Entrepreneurship (IDE) Bootcamp at **IISER Bhopal** organised by Wadhwani Foundation, AICTE & MHRD.
- **Successfully** completed a comprehensive **Data Analytics Professional Certificate** offered by **Google** on **Coursera**.
- **Successfully** completed two courses **Introduction to Cybersecurity & Cybersecurity Essentials** from **Cisco Networking**.
- **Successfully** completed an offline 5 Days **Training on IOT** conducted by **Intel & FICE.**
- Represented my school in the **19th Inspire Camp** organized by Pt. Ravishankar Shukla University, Raipur (C.G) (Under govt. of India)
- **Awarded** with **scholar badge** for excellent performance in academics in Standard 10th.

Positions of Responsibility and Extra-curriculars

- **Active Member** – IEEE Madhya Pradesh Section (ID:99325072)
- **Technical Coordinator** - OTCON 2.0 (O.P Jindal Technical International Conference)
- **Member** – Google Developer Group Durg (GDG-Durg)
- **Head Student Volunteer** - NSS club, OPJU
- **Event Manager** - Technorollix'-23 (Intra-college Cultural and Technical Event)
- **Secretary** - Cybernetics Club, OPJS