Sonu Kumar

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GitHub
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Bachelor of Technology
in Computer Science Engineering (AIDS)
G.L. Bajaj Institute of Technology and Management, Delhi NCR

Summary

A third-year Computer Science Engineering student specializing in Artificial Intelligence & Data Science with robust knowledge of data structures and algorithms (DSA). Passionate about solving complex problems, participating in hackathons, and collaborating on innovative projects.

Education

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	G.L. Bajaj Institute of Technology and Management, Delhi NCR	AKTU	7.78 (Till 4th Sem)	2022-2026
Senior Secondary	GDMIS Muzaffarpur, Bihar	CBSE	78%	2021
Matriculation	GDMIS Muzaffarpur, Bihar	CBSE	87.3%	2019

Experience

- **SIH Hackathon**
  Participant
  - **Project Development**: Developed a collaborative platform connecting rural farmers with e-commerce websites using XML, Kotlin, Jetpack Compose, Firebase Authentication, Realtime Database, and Google AdMob.
  - **API Integration :** Integrated various APIs to enhance platform functionality, including weather forecasting API, crop price tracking API, and logistics API.
  - Farmer Support & E-Commerce Integration : Key features include:
    * A smart recommendation system to suggest best-selling crops based on market demand.
    * Free webinars and training sessions by agricultural experts.
    * AI-powered chatbot for farming queries and marketplace assistance.
    * Advertisement and sponsorship options for revenue generation.

Projects

Brain Tumor Detection & Classification

Python, TensorFlow/Keras, OpenCV, CNN, Flask, Firebase Authentication, Firebase Cloud Storage.

- Secure Access: Implemented Firebase Authentication for secure login and user data management.
- Medical Image Analysis: Developed a deep learning model using CNN to detect and classify brain tumors from MRI scans.

- **Weather Application**
  XML, Kotlin, Weather API
  - **Current Weather**: Developed feature for users to check the current weather of their area.
  - **Search Feature**: Implemented a search feature for users to check the weather conditions of any area using the **Weather API**.

Key Skills

- **Programming Languages**: C, C++, Python, Java, Kotlin
- **Tools and FrameWorks**: Android Studio, VS Code, Firebase, Git, GitHub, Linux
- **Core Subject**: Object Oriented Programming in Java, Data Structures and Algorithms, Operating Systems, Database Management Systems

Achievements

- **Amazon Aws virtual internship by AICT.**
- **Google Android Development internship by AICT.**
- **Certified in SIH Hackathon.**
- **Certification by Cisco Networking Academy.**

Coding Profiles

- **LeetCode**: leetcode.com/u/SONU35/
- **DSA Repository** : https://github.com/35sonu