Saksham Bansal Amazon

4th Year Undergraduate
Electrical & Electronics Engineering
Minor in Computing & Intelligence

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About: Highly motivated technical enthusiast with a knack for problem-solving, demonstrating perseverance, discipline, and teamwork. National champion in skating, showcasing dedication, focus, and goal-oriented mindset in both personal and professional pursuits.

Academic Qualifications

Year	Degree/Certificate	Institute	Grade
2024	B.E.(Hons)	Birla Institute of Technology and Sciences, Hyderabad	9.09/10
2020	CBSE(XII)	Guru Nanak Khalsa Sr. Sec School, Chandigarh	96.4%
2018	CBSE(X)	Bhavan Vidyalaya, Chandigarh	94.8%

Internship/Projects

Software Develeopment Engineer Intern at Amazon *(Jan '24-Jun '24)*
- Used Java dependency injection frameworks **spring, dagger and guice** to add functionalities to existing services
- Worked on micro-services architecture using the AWS tools
- Used React.js for frontend and leanred full SDLC from designing to maintainence

Software Development Intern at Reliance Jio *(May '22-July '22)*
- Developed **Meeting Summariser** for **Jio Meet** to convert text to speech and summarise it
- Implemented **PyTorch** to convert **Mp4 files to Mp3** audio format and transcribe them **into text**
- Employed **Bart Transformers** for **abstractive summarization**, generating condensed summaries
- Achieved an impressive **accuracy rate of 95.4%** when summarizing text to one-third of the original length

Trends in Contraception Awareness And Child Health *(Jan '23-May '23)*
- Data extraction and visualisation done on **DHFS data**, through **data filtering, feature creation and normalisation**
- Performed **Data analysis** using multiple algorithms like **K-NN, Decision Trees and Regression, K-means**
- **Hierarchical Clustering** and Association Rule mining(**Apriori**) with **confidence values over 0.98** achieved

E-commerce Website *(Aug '22- Dec 22')*
- Developed an E-commerce Website with **Java SpringBoot, React, MySql database**, hosted using **Apache Tomcat Server**
- Implemented Admin, Manager and User roles with functionalities of inventory, cart and billing
- Brownie points received for **Bing Map API, Forget Password** functionality

Software Development Intern at Elite Web Technologies *(June '21- Aug 21')*
- Developed Invoice Generator with **Python flask, sqlAlchemy, Bootstrap 5.0**
- Developed Client Management System using **C#** and **ASP.NET MVC framework** for scrutiny over progress of projects

Stock Prediction through Artificial Intelligence — Data Science *(Jan '23-April '23)*
- Developed **Stock Prediction Model** with dataset of over **20 years** to predict future prices of stocks
- Employed **Genetic Algorithm**, **Particle Swarm Optimisation** and **Monte Carlo Algorithm**
- Accuracy in prediction upto **82%** achieved, aim was to familairise with **hyper-tuning of parameters**

Competitions / Extra-Curricular Activities

- **3x National Champion**, **13 National Golds** out of 108 medals in skating. **State Gold in Athletics**
- Attained a ranking within the **top 1%—1550+**, on LeetCode, solving over **800+** algorithmic and data structure challenges
- Worked as **NSS volunteer** under **Swachh Bharat Abhiyan** and **Jal Shakti Abhiyan**

Technical Skills

- **Technical Proficiency:** C | C++ | Python | SQL | MATLAB | Excel | Java | Amazon Web Services
- **Libraries:** React, flask, SpringBoot, Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn, NLTK, PyTorch
- **Professional Applications:** Visual Studio Code | GitHub | Postman API | Google Collab | MS Excel | MS PowerPoint

Coursework Information

- Foundations of Data Structures and Algorithms | Object Oriented Programming | Operating Systems | Data Base Systems | Artificial Intelligence | Data Mining | Blockchain Technology | Probability and Statistics | Operations Research(Optimisation) | Discrete Mathematics | Microprocessor and Interfacing 8086

Positions of Responsibility

- **Treasurer — VFx Club:** Organised **Orbo Novo(Techno Cultural Fest**), held **workshop** to train 500+ participants Adobe premiere pro and Final Cut pro video editing softwares
- **Electronic Subsystem Engineer — Vulcan :** Conducted **All About EV's,** a workshop on Electric Vehicles in **Tech Week**, attended by **over 200** vehicle enthusiasts
- **Anti Ragging Head:** Led the **Anti-Ragging team of 8** students and helped in reconciliation and timely solution to cases
- **Student Mentor:** Mentored **6 first-year** Undergraduate Students in the Fresher's Guidance Program