

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer (Associate Projects) , Cognizant - (June 21 - present)

- Collaborated with the stakeholders to gather the application details, collected user stories, and managed a sub-team working in an agile fashion to design, develop, launch and test the software solution.
- Solved complex problems by leveraging appropriate **data structures and algorithms**, and using the **Object oriented design** methodology to create high quality, efficient and scalable code in **Java**.
- Structurally breaking complex problems to sub problems, assigning to the teammates, getting regular feedbacks and clarifying technical requirements, leading to improved delivery time.
- Tested and solved for potential bugs and bottlenecks, maintained proper documentation improving the efficiency by 25%.
- Created new efficient SQL and improved the older queries for fetching data increasing the response time by 18%.
- Utilized any extra time and resources in upskilling self and the team on daily basis in technologies like **Python, Data Science, Docker, AWS, React Js, Kafka** and leveraging these to develop application in a micro-service based architecture.

### Data Science Remote Intern, Jugaad Analytics - (Feb-19 - Jan 20)

- Successfully performed **data cleaning** reducing 30% redundancy in the dataset and created a structured analysis to increase sales.
- Single handily designed and build scalable generic codes for data handling.
- Created end to end pipeline for data forecasting of Heineken beer using ARIMA and SARIMA models increasing the prediction accuracy to 85%.

## EDUCATION

June 16 - Aug 20	B Tech - ME	Indian Institute of Technology - IIT Jammu	8/10
2015-16	Class XII	Rajasthan Board of Secondary Education	90.8%
2013-14	Class X	Central Board of Secondary Education	10/10

## IMPORTANT PROJECTS

Face Mask detector	<ul style="list-style-type: none"><li>Created, trained and deployed a deep learning face mask detector using Pytorch and deployed it using flask.</li><li>Generated augmented dataset using limited available data by using custom defined algorithm.</li><li>Iterated with multiple values of hyper parameters to achieve the optimal accuracy.</li><li>Programmed real-time detection capabilities, and achieved an accuracy of 98%.</li></ul>
Image Classification API endpoint	<ul style="list-style-type: none"><li>Built and trained a deep learning model on top of a ResNet50 architecture using <b>Keras</b> for generic image classification, and served it as an API endpoint using <b>Flask</b> and <b>Docker</b>.</li><li>Deployed it using <b>Kubernetes</b> on the Google cloud platform increasing the response time multi-fold.</li></ul>
16-bit Computer	<ul style="list-style-type: none"><li>Developed conceptual understanding of the various abstraction layers of computer systems, and implemented them in a virtual simulator.</li></ul>
Miscellaneous Projects	<ul style="list-style-type: none"><li>Gained understanding of RISC-V ISA, basic hardware design principles and integration of different modules.</li><li><b>Real-time weather monitoring server using ESP32:</b> Hosted a web server on ESP32 board to provide real time weather updates.</li><li><b>Fashion Clothing classification:</b> Achieved 99% accuracy using neural network algorithm implemented from scratch.</li><li><b>Music database:</b> Created a logical Song database schema using SQL.</li></ul>

## POSITIONS OF RESPONSIBILITY

General Secretary, IIT Jammu (2017-18)	<ul style="list-style-type: none"><li>Drafted the constitution of IIT Jammu leading a cross-functional team of 30 members.</li><li>Organized and managed <b>INFINITO</b>-IIT Jammu's first Cultural Fest, with a team of 40+ members and a total budget of Rs.8 lacs, which witnessed participation of 300+ students.</li></ul>
Mkt and Ops Head(BAJA)	<ul style="list-style-type: none"><li>Planned, tracked and executed all the operational activities with the team of 50+ members.</li><li>Raised 30% Sponsorship for the Team &amp; Won people's choice awards at ATVC Kota 2018-19 National Level Off-road Vehicle Championship</li></ul>

## ACHIEVEMENTS

Awards	<ul style="list-style-type: none"><li><b>Economic Times Best Engineering Student Leaders Award. (ETCS 2019-20)</b> - Accomplished rank among top 100 / 50,000 participants qualified through four phased rigorous evaluation based on aptitude, personality, domain skills, group leadership and dynamics as the criteria</li><li>Winner in <b>Mathematics for Engineers</b> competition organised by SMVDU, Jammu with over 100 participants</li></ul>
Certifications	<ul style="list-style-type: none"><li><a href="https://drive.google.com/drive/folders/1slQzP7R1nqqCkZs55CBtluA9PXhSMggw?usp=sharing">https://drive.google.com/drive/folders/1slQzP7R1nqqCkZs55CBtluA9PXhSMggw?usp=sharing</a></li></ul>
Relevant Courses	<ul style="list-style-type: none"><li><b>Relevant courses(IIT-Jmu)</b> – DSA, OOPs in C++, Computer Vision, Cognitive Science, Management</li><li><b>Technical Skills</b> – Java, spring framework, python, AWS, C++, Machine Learning, Deep learning.</li></ul>