



SATWIK VATS

Course : B.E. (Hons.), Elect. & Instrumentation, 2023

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CGPA : 7.17



ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	Kendriya Vidyalaya Ordnance Factory Chanda	CBSE	90.6 %	2018
CLASS X	GENERAL	D.A.V Public School	CBSE	10 CGPA	2016

Subjects / Electives	Data Structures and Algorithms, Object Oriented Programming, Operating Systems
Technical Proficiency	C++, Python, Kotlin, Java, Github, Docker, SQL, MS PowerPoint, Firebase, MS Excel

SUMMER INTERNSHIP / WORK EXPERIENCE

Student Trainee, Samsung R&D Institute India - Bangalore (SRI-B) <i>SRI-B is the largest R&D Center outside of South Korea and a key innovation hub in the Samsung group.</i> <ul style="list-style-type: none">Enhanced Software Architecture Maturity Score of a code module by 24%, via changes in Preprocessor Flags.Wrote and compiled Unit Test Cases for 50 non-API and 30 API Functions using Pytest and Mock Object libraries.Fixed 36 Bugs in a Machine Learning Framework, improving code Maintainability and Reliability by 14% and 8%.	Jul 2022 - Dec 2022
Research Intern, CSIR - CEERI, Pilani <i>CEERI is a research institute and a constituent laboratory of Council of Scientific and Industrial Research, New Delhi.</i> <ul style="list-style-type: none">Trained a Resnet-18 model on a Kaggle sample dataset of 400 for Covid-19 prediction using chest X-Ray images.Applied the model to a Federated Learning framework addressing the client's data privacy concern.Used FedProx Optimization Technique on the model and improved Convergence Rate by 8% for Cifar-10 dataset.	Jan 2022 - Apr 2022

PROJECTS

Personal Blog and Portfolio - Continuous Integration/Continuous Deployment Built Personal Blog-cum-Portfolio using Hugo , deployed using Netlify , and automated updation using Github Actions .	Jun 2021 - Present
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POSITION OF RESPONSIBILITY

Coordinator - Computer Literacy Programme, NSS - BITS Pilani <i>NSS, BITS Pilani is a student-run social service organization which strives to improve the lives of rural Pilani.</i> <ul style="list-style-type: none">Trained 60+ beneficiaries including adults and school students for Govt certification exams like CCC and BCC.Launched a women-centric technology training initiative called Naari Computer Shiksha at a local stitching centre.Conducted cybersecurity awareness lecture series for 500+ viewers by esteemed researchers from Cisco and McAfee.	Jul 2021 - May 2022
Joint Coordinator (Events) - Sports Publicity and Design Team <i>A team responsible for developing a marketing campaign for BOSM, the annual Sports Fest of BITS Pilani.</i> <ul style="list-style-type: none">Involved in Facebook streaming of BOSM Blitz, an E-Sports Tournament which saw a participation of 150+ teams.Curated hoarding banners, standees and digital content across all the sporting events conducted in BITS Pilani.Managed the BOSM Facebook and Instagram handles with 4000+ follower count and 2000+ footfall per post.	May 2021 - Apr 2022

AWARDS AND RECOGNITIONS

Software Competency Test - Advanced Samsung R&D Institute, Bangalore Cleared the Software Competency Test (SWC) - Advanced (DSA) in my first attempt as a part of recruitment process.	Nov 2022
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CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY	DESCRIPTION
Python Specialization University of Michigan	Coursera	Data structures Networked APIs Databases

EXTRA CURRICULAR ACTIVITIES

Drama <ul style="list-style-type: none">Performed in the annual Cultural Nite organized by Maharashtra Mandal, BITS Pilani during my freshman year.
Digital Art <ul style="list-style-type: none">Made Amateur Digital Portraits of Fictional characters using Adobe Illustrator and Procreate for my Art-Page.