Satyam Nyati

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EDUCATION

Examination	Institute	Degree/Board	Year	CPI/%	
Graduation	IIT Bombay	B. Tech. in Mechanical Engineering	2018	8.2	
High Secondary	MPS, Kota	Central Board of Secondary Education	2014	85.8	
Secondary	MGM, Kapasan	Rajasthan Board of Secondary Education	2012	90.0	
		PROFESSIONAL EXPERIENCE			
BOSCH (RBEI)	Senior Enginee	ſ		Jul'18-Present	
Automation In Simulations	Improved sNew feature	hon: Optimization of the python code to improve perform cripts to decrease time complexities from O(n³) to O(n) in the integration with automated post-processing reducing a with 4+ German Customers to improve the method for re-	node search calculations It least 15% effort for ove	rall simulation study	
Welding Curves Prediction and Optimization	 Resistance Spot Welding: Building an architecture to predict and optimize current curves to achieve target values Structured and cleaned data of size 4+GB and more than 1 Lakh time series into tabular format for modeling Applied ML techniques from Scipy with parameter tuning and grid search; achieving 90% R² in prediction Built a workflow to study this type of data; thereby creating a POC for this type of time series analysis 				
Sensor Simulations	 Modal, Harmonic and Thermal Simulations: Supporting business unit in Germany for ANSYS structural simulations Simulated modal, harmonic and thermal simulation for automobile sensors; handled 100+ parts and connections Supported client with results and design changes; helped increasing safety by 10+% within -20° to 100° Celsius 				
JEEVTRONICS P	VT. LTD. Desig	n Engineer		May'17-Jul'17	
Design Project	Analyzed n	n: Summer Internship project to design gear box for a defioise vibration measurement and Amplitude Frequency plond prototyped design with Excel calculations; theoreticall	ots with MATLAB; finding	5+ modes of failures	
		LEADERSHIP ROLES			
Dept. Team Activities	 Core Team Member: Team of 6 members to organize and execute various team building activities Mar'19-Present Organized a weekend team outing event for 80+ associates; estimating 200+ increase in connections across teams Created and guided 80+ people in various games and tasks in team building activities; appreciated by Dept. Head 				
Game development	Fibonacci 2048: Spearheaded a team of 4 in course project of C++ Programming and Utilization • Created a game similar to 2048 with sequence of Fibonacci in C++; learnt object oriented programming concept • Presented and reviewed the code documentation to guide professor without prior experience in coding				
		SKILLS AND COMPETENCIES			
Programming	 Languages and Applications: Python (Advanced), R, SQL, C++, MATLAB, Git, ANSYS, Abaqus Algorithms in ML: Decision Trees, Classification and Regression, SVM, Neural Networks, Bayesian Models 			ian Models	
Analytics		 Electives in Statistics: Probability and Random Processes, Data Mining with R in Mechanical Engineering Statistical Analysis: Regression and Classification, Hypothesis testing, Time Series Modeling, A/B Testing 			
Simulations	ANSYS and	Abaqus: Thermal and Mechanical Modal, Static, Explicit s	simulations with Finite Ele	ement Analysis	
		COMPETETIONS			
Code Jam 2020	Qualified to	Qualified to round A in Google Code Jam 2020 after scoring 30+ marks and placed among 30,000 internationally.			
RBEI ML Competition					
JEE Advanced	• Stood 1 st in	district with All India Rank 236 among 1.4+ Million stude	nts in Joint Entrance Exan	nination 2014	
	1	EXTRACURRICULARS			
Awards and Sports					
Cultural	Participated and showcased 2 sketches in Kaladarshan which is an art appreciating festival				
Social Activities	 Abhyasika IITB: Taught Organic chemistry to 11th standard dropout student with regular tests Successfully completed 1-year National Service Scheme(NSS) Green Campus course 				