

Examination

Kartavya Singh Mechanical Engineering

University

Indian Institute of Technology, Bombay Specialization: Computer Integrated Manufacturing

Institute

16D100007

Dual Degree (B.Tech. + M.Tech.)

Year

Gender: Male DOB: 16-02-1999

Examination	University	Ilistitute	1 car
Graduation	IIT Bombay	IIT Bombay	2021
Awarded a Minor Degree in Management Studies from SJMSOM (Key Courses: Finance, Operations, Strategy, PM and HR)			
PROFESSIONAL EXPERIENCE			
Bajaj Auto Ltd.	 Identified Critical to Quality Performed a Root Cause An Analysed effect of Air to Fue 	alytic Converter Durability for BS VI Comp parameters of Catalytic Converter Failur alysis for the failure of the Catalytic Convel & P/H ratios of catalytic cell on coating Capture Zone, Copper as in-cylinder cata	e by reviewing 50+ research papers verter by developing a Fault Tree factor & emission purity using NX
CAF, ISB Hyderabad	 Implemented PEAD strategy Regressed on 27-variable Floring 	Bloomberg Market Concepts Certification in R by calculating the Standard Unexpect CO Data with 0.68 R2-score to forecast programmal return of 17.43% over 60 trading data.	cted Earnings of BSE listed companies ercentage loan repayment in the US
IIM Ahmedabad	 Applied data mining technic 	se Intra-Facility Movements ttern data of 19 workers over 2 months to ques to extract patterns of various length install travellators & vending machines to	s and their percentage occurrences
Purple Finance Ltd.	Integrated 20+ workflow ch	a Pre-Internship Offer a B2B Loan Origination & Management S anges in the prototype using Competitive ing by pitching custom Lending Kit after a	Strength Analysis on 8 competitors
Jacobs Engineering	Core Consultant Piping System Inspected the piping system	tems s' adherence to ASME 31.3 Code by perfo	[May '18-Jun '18] orming stress analysis on CAESAR II
ACADEMIC & COURSE PROJECTS			
ML & AI	 Simulated LO Regularisation Image Captioning using an Industrial Evaluated the LSTM & GRU 	del with LO Regularisation using NumPy an using binary Bernoulli distributed gates Encoder-Decoder Neural Net with Visual Joased deep learning models on speed & rol by transfer learning pretrained YOLOV	to speed up the training process Attention using TensorFlow ['19] accuracy of the generated captions
Master's Thesis		for Additive Manufacturing using Machin e Neural Network, SVM on CAD data to re	
Finance	■ Analysed Financial Report of Adani Power Limited using Current ratio, Quick Ratio, ROA, ROE ['17		
Mechanical	Led a team of 10 to fabricat	e an Automatic Drainage Cleaner prototy	pe within a budget of INR 15k ['19]
		LEADERSHIP ROLES	
Sports Nominee	Hostel 7 Awarded Organisational Special Mention (3 out of 200+ students) [Jun'18-Apr'19] Led a 2-tiered team of 13 members Instrumental in elevating Hostel Culture by organising Intra-Hostel events Countered a 75% workforce reduction by devising strategies for effective execution of sports activities Administered meticulous allocation of INR 1.4 lakh to manage sports equipment & organise tournaments		
Junior Design Engineer		em: Brakes eam 7th out of 23 international teams e car; developed carbon fibre fabrication	
Teaching Assistant		nd Product Modelling under Prof. S. S. Pa oftware course projects and conducting v	
ACHIEVEMENTS & EXTRA-CURRICULARS			
Scholastic	■ AIR 856 in JEE Advanced '16	o attend selection camp for Internationa & 1024 in JEE Mains '16 NTSE '12 Sc lents in national Olympiads: INJSO '13, IN	holar (AIR 35) KVPY '14 Scholar
Sports	 Awarded Hostel Sports Spee Tata Mumbai Full Marathor 3rd position, 400m Hurdles 3rd position, Inter Hostel Foo 	cial Mention (3/200+) Part of IIT Bo n Finisher ['19, '20] IIT-Bombay I ['18] 2 nd position,	mbay Athletics Team ['18, '19] Half Marathon Finisher ['18, '19] Relay 4*400m ['16, '17] hmen & Sophomore Crossy ['16, '17]
Finance		ultant at WorldQuant LLC; Identified Alpl	
Social	 Underwent 4-month training program on Introduction to Quantitative Trading Strategy by Auquan ['19] Linear Model for optimising Drip Irrigation Water Usage in Talasari Course Project, CTARA ['20] 		
Technical	■ 3D Laser Hockey ITSP '17 ■ Line Follower Bot STAB '17 ■ RC Plane Aeromodelling Club '16		
Courses	Deep Learning Specialisation	·	ent Learning Explained by Microsoft
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