

Jai Kedia

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EDUCATION			
Program	Institution	% / CGPA	Year
B.Tech - Civil Engineering	Indian Institute of Technology-Madras	9.34 / 10	2021
XII th - Senior Secondary	Mahathi Junior College, Visakhapatnam	98.3 %	2017
X th - Secondary School	Delhi Public School, Visakhapatnam	10 / 10	2015
PROFESSIONAL EXPERIENCE			
Coal India Ltd Management Trainee Oct 2024 – Present	<i>Strategically managing public-private contracts: compliance, efficiency, high-value execution.</i> <ul style="list-style-type: none">Coordinated the execution of contracts valued over \$70 M, ensuring compliance with public sector procurement and operational guidelines.Supported end-to-end contract lifecycle, validated regulatory alignment, & tender submissionApplied technical & financial expertise to identify the optimal bids for large-scale projects.Led the estimation & preparation of Bill of Quantities (BOQ) for project planning & delivery.		
Tracks and Towers Infratech Pvt Ltd Director’s Office Mar 2024 – Sep 2024	<i>Coordinated multiple departments, reducing information asymmetry across \$250 M projects.</i> <ul style="list-style-type: none">Developed in-house project planning software for improving efficiency across procurement, budgeting, scheduling, for 1000+ users across 2 major projects.Led QS# operations for \$100 M Indian Railways and \$150 M National Expressway project.Scheduled invoices to manage cash flow as per project phases for \$100 M Railway project.		
IIT – Madras Project Associate Aug 2022 – Dec 2022	<i>Worked on project – “Prediction of mechanical properties of concrete using Machine Learning”</i> <ul style="list-style-type: none">Carried out extensive literature review and charted out project plan with milestones.Replicated models from several studies and smoothly organized stakeholder meetings.Created extensive database of concrete data to be used in further research and model building.		
Arthur D Little Business Analyst Jul 2021 – Mar 2022	<i>Analysed data & gathered facts sources, compiled insights and made client ready presentations.</i> <ul style="list-style-type: none">Presented compelling insights of global AI strategies to benchmark India's approach.Evaluated entries for National Logistics Excellence Awards in recognizing industry leaders.Developed digital market strategy and opportunities in global & Indian diagnostics sector.		
Adaptflex Market Research Intern Jun 2020 – July 2020	<i>Carried out competitive research and explored the growth potential of the Ed-tech industry.</i> <ul style="list-style-type: none">Designed a guide for parents to adapt to online learning opportunities.Assessed skill development gap and established partnership with 50+ local schools.		
Visakhapatnam Steel Plant Industrial Trainee Dec 2018 – Jan 2019	<i>Training at Projects department responsible for expansion of RINL¹ from 3 to 6.3 MTPA*.</i> <ul style="list-style-type: none">Investigated the slipform construction methodology for constructing an industrial chimney.Plotted the particle size distribution curve to ensure optimal soil conditions for construction.Studied the drawings of a reservoir which provides storage of 12.3 million cusecs of water.		
PUBLICATIONS			
<ul style="list-style-type: none">Nikhil Bugalia, Vurukuti Tarani, Jai Kedia, & Hrishikesh Gadekar. Machine learning-based automated classification of worker-reported safety reports in construction. <i>Journal of Information Technology in Construction</i>, 27, 2022.Jai Kedia, T Vurukuti, Nikhil Bugalia, & Ashwin Mahalingam. Classification of safety observation reports from a construction site: An evaluation of text mining approaches. <i>In PMI Research & Academic Virtual Conference</i>, pages 50–66, 2021.			

PROJECTS AND CONFERENCES		
Analysing Safety Reports Using NLP Guide - Dr. Nikhil Bugalia Aug 2020 – Jun 2021	<i>Processed complex dataset from Kuwait construction site to create a systematic analysis plan.</i> <ul style="list-style-type: none">Reviewed 12,000 safety observations, addressing errors in worker-reported entries.Evaluated 7 ML classifiers for classifying safety reports, achieving F1 scores: 0.82. (Unsafe Condition), 0.77 (Good Observation), 0.62 (Unsafe Act).Optimized Random Forest model, increasing F1 score from 0.74 to 0.77.Conducted CNN sensitivity analysis, enhancing model accuracy for predictions.Collaborated with industry, validating ML's potential for efficiency gain in safety Reporting.	
KAIST²-IITM Collaboration Jan 2020	<i>Highlighted the importance of extra-curricular activities in holistic development of students.</i> <ul style="list-style-type: none">Conceptualised a digital platform bridging students and experts for outdoor engagement.Select team member from institute to brainstorm solutions to present in conference.	
SCHOLASTIC ACHIEVEMENTS		
<ul style="list-style-type: none">Ranked in the top three academically in a batch of 70 with a Cumulative Grade Point Average of 9.34/10. (2017-21)Winner of technical paper presentation at Research & Virtual Conference by Project Management Institute. (2021)Scholarship recipient of the Japanese Student Services Organisation (JASSO) for short-term study in Japan. (2020)Awarded Scholarship for "Innovation in Science Pursuit for Inspired Research" by the Govt. of India. (2017)		
RELEVANT COURSES AND SKILLS		
Introduction to Data Analytics	Infrastructure Planning and Management	Construction Project Management
Public Transportation	Transportation Network Analysis	Transportation Systems Analysis
Probability and Statistics	Principles of Economics	Linear Algebra
Languages: Python	Software- Revit, Synchro, Tekla Structures, AutoCAD, MS Excel	
Soft Skills: Creative & Critical Thinking; Problem Solving; Generating Hypotheses; Interpersonal Skills		
POSITION OF RESPONSIBILITY		
Institute Captain Waterpolo 2020-2021	<ul style="list-style-type: none">Led a team of 20+ players, coordinated training sessions and strategized for competitions.Successfully organized a Waterpolo tournament at IIT Madras, show-casing strong organizational and leadership abilities.	
Hostel Captain Swimming & Waterpolo 2018-2019	<ul style="list-style-type: none">Spearheaded the hostel waterpolo team to secure Bronze in the waterpolo tournament 2018-19, marking a significant achievement after a 3-year drought.Coordinated with college administration to secure resources and support for the team, including equipment, and funding.	
SPORTS		
35th Inter IIT Aquatics Meet – IIT Kharagpur 2019	<ul style="list-style-type: none">Represented IIT Madras and won over-all aquatics meet for the 4th consecutive year.Won Silver in 50m Freestyle; Bronze in 100m Breaststroke; Bronze in Waterpolo.Became the 4th fastest swimmer in the history of 50 m freestyle event.	
Schroeter³ 2018-2020	<ul style="list-style-type: none">Won Gold in inter-hostel Water polo tournament among 10 hostels. (2020)Won Gold in 200m & 100m breast, 50m freestyle in Schroeter. (2020)Won Gold in inter-hostel Triathlon competition among more than 15 hostels. (2020)Won Bronze in Waterpolo – first ever freshmen team to achieved this feat. (2018)	
[#] QS - Quantity Survey	¹ RINL – Rashtriya Ispat Nigam Limited	[*] MTPA – Million tonnes per annum
² KAIST- Korean Advanced Institute for Science and Technology		³ Schroeter is the inter-hostel tournament of IIT-Madras