

Kunal Soni

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PROFILE

Kunal is an seasoned software and analytics leader with over 12 years of experience across data science, software development, and product development in multinationals and startups. He brings technical expertise, business acumen, and proven ability to build scalable, high-performance, and data-driven solutions. He has held mid-senior level roles driving impact across industries like e-commerce, energy, home appliances, health tech, and ed tech etc.

EDUCATION

2025-2026	National University of Singapore Singapore	M.Comp. Major: Information Systems
2004-2009	Indian Institute of Technology Madras Chennai, Tamil Nadu, India	B.Tech. & M.Tech. Major: Naval Architecture and Ocean Engineering Minor: Operations Research

WORK EXPERIENCE

Dec23 – Dec24	Liquid e-Learning Services Pvt. Ltd. <i>Director, Emerging Technologies</i> ➤ Developed RAG based chatbot for training nurses for Occupational English Test. ➤ Formulated and coded a Linear Programming based vocabulary trainer ➤ Developed backend and frontend for a children's quiz website for Government of India, MyGov.in	NOIDA, India
Nov22 – May23	Insurance Dekho <i>Technical Lead, Data Analytics</i> ➤ Developed a RAG based chatbot for health insurance line of business ➤ Developed an insurance policy entity recognition model for health and motor insurance line of business. ➤ Developed backend for health and motor insurance renewals	Gurugram, India
Aug21 – Mar22	Pristyn Care <i>Associate Director, Data and Engineering</i> ➤ Developed a route optimized scheduler for planning doctors' surgeries ➤ Developed an automated Google Ads reporting tool	Gurugram, India
Nov20 – Jun21	Shopperr.in <i>Associate Director, Data Technology</i> ➤ Formulated the vision document to implement analytics for the e-commerce firm ➤ Developed a web scraper that scraped websites like Alibaba, Amazon, and Flipkart to select best rated products.	Gurugram, India
Sep19 – Sep20	Opplan.ai <i>Founder</i> ➤ Built an image filtration tool for Creatalogue Internet Pvt. Ltd. ➤ Built a chat web application for Profoundly.com ➤ Built a student learning outcomes predictor for Compro Technologies	Delhi, India
Jul16 – Jun18	Amazon India Development Center <i>Forecaster (Applied Scientist-2)</i> ➤ Developed the worldwide device and digital contacts forecasting system, streamlining (25x speed-up, 22 man-hours/week savings), standardizing (one method for all planning horizons, all 15 countries), and scaling (~6000 devices, any number of new countries) the forecasting process	Hyderabad, India
Jan16 – Jul16	Tatras Data <i>Data Scientist</i> ➤ Developed a recommender system for UK's online fashion retail chain Dressipi	New Delhi, India

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| Aug12 – Mar15 | General Electric Company
<i>Scientist, Software Science and Analytics</i> | Bangalore, India & Louisville, USA |
| | <ul style="list-style-type: none"> ➤ Developed a predictive analytics model to plan down time of and prevent critical damage to gas turbines, saving \$5 MM annually for GE's clients ➤ Designed a refrigerator compressor prototype that achieved higher energy-efficiency and higher reliability than LG, Samsung, and Embraco compressors ➤ Developed a statistical portfolio risk calculator for GE Capital ➤ Developed a software to simulate metal alloy solidification, achieving 7x speed up w.r.t status quo and receiving \$60,000 funding from GE Aviation | |
| Dec11 – Jul12 | TATA Computational Research Laboratories
<i>Engineer</i> | Pune, India |
| | <ul style="list-style-type: none"> ➤ Developed a software on EKA supercomputer to design ground vehicles and presented and delivered the software to a TATA Motors team | |
| Aug09 – Aug11 | University of Wyoming & Office of Naval Research
<i>Research Associate</i> | Laramie, USA |
| | <ul style="list-style-type: none"> ➤ Developed flow physics software on super-computing platform for US Army's rotor-craft research | |

AWARDS AND HONORS

- ATMS Technology Project of the Year 2013 Award by GE CTO
- Science Academies' Summer Research Fellowship 2007 (~100 students)
- GE Lead Expo 2013 Award by GE India (1/11 teams from GE India)
- Graduate Research Associateship by the Office of Naval Research (\$56,800)
- Half-Time Teaching Assistantship Scholarship by IIT Madras (INR 120,000)

SOFTWARE ENGINEERING SKILLS

- Programming Languages: Typescript, Javascript, Python, Java
- Backend Frameworks: Nestjs, Expressjs, Django Rest Framework
- Frontend Frameworks: ReactJs, NextJs
- Databases: SQL, MongoDB, Redis (cache)
- High Performance Computing: CUDA, Hadoop, MPI, and OpenMP
- Cloud: AWS (ETL,RS,S3,EC2,Redis,DynamoDB, ElasticSearch), Microsoft Azure (VMs, Storage)
- Miscellaneous: Postman, RabbitMQ, Nginx/Apache, Docker, MS Office (Excel Macros), JMeter, K6,
- HTML, XML, and Tailwind CSS
- Operating Systems: Linux and DOS OS

DATA SCIENCE SKILLS

- Analytical Methods: Stochastic Modelling, Bayesian networks, Operations Research, Classification and Regression modelling, Unsupervised learning, Ensemble methods, SVM, Neural Network, Deep Learning, Natural Language Processing, and Generative AI
- Databases: VectorDBs(Pincone, Weavite)
- Software: Mathematica, MATLAB, R, and Octave
- Analytics Framerworks: Google TensorFlow, PyTorch, Google OR Tools, Llamaindex, Langchain

CERTIFICATES

- Machine Learning by Coursera, Statistical Learning by Stanford Lagunita, GE's ACE in Analytics and Software, Lean Six Sigma Green Belt, GE's Analytics Engineer, Probabilistic Graphical Models by Coursera, Problem Solving (Hacker Rank Gold Badge), Python (Hacker Rank Gold Badge), Deep Learning Specialization by Coursera, Generative AI – Pinnacle Course by Analytics Vidhya, React – The Complete Guide by Udemy, The Complete Node.js Developer Course by Udemy, Generative AI with Large Language Models by Coursera, Docker for the absolute beginner by Udemy, and NestJS the Complete Developers Guide by Udemy.