



NITIN MONGA

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SUMMARY

Highly skilled Data Scientist and AI Engineer with 18+ years in IT and 7+ years in Data Science and Machine Learning. Proficient in Python, R, SQL, and AI technologies, specializing in GenAI, Machine Learning, NLP, Computer Vision, and Statistical Analysis. Expert in implementing RAG based Generative AI solutions, algorithmic trading and delivering training on Data Science and GenAI, to global IT enterprises. Experienced in leading complex projects, data-driven decision-making, and staying at the forefront of AI advancements. Dedicated to driving impactful results through innovative AI applications. 7+ Years of Entrepreneurship & freelancing experience that involved Business Development, Sales, Marketing & delivering consulting projects in the domain of Machine Learning and Algo Trading.

TECHNICAL SKILLS

R, Python, SQL, Oracle Database, PowerBI, Statistics, Data Analysis, Regression, Classification, Clustering, NLP - Natural Language Processing, Deep Learning, Computer Vision, ANN, CNN, RNN, LSTM, GRU, GenAI, Langchain, LLM - Large Language Model, HuggingFace, OpenAI, Vector Databases - Pinecone, Qdrant, ChromaDb, Streamlit, Equity Market - Algorithmic Trading, Financial Modeling, Equity Market Data Analysis, Backtesting, Portfolio Optimization

CURRENT EXPERIENCE

Data Science Freelance Consulting & Training

Mar 2014 - Till Date

Entrepreneurial Stint - Founded and built two platforms, Skill Venue and Xilytica, aimed at connecting trainers, mentors, and learners for an online education, later pivoted to focus on Data Science and Machine Learning training and consulting. Actively developed business leads, onboarded trainers, and explored digital marketing, content strategy, and advertising to generate leads across social platforms. Trained and mentored numerous college students and professionals, while delivering Data Science and AI projects for companies and startups in India and the US.

Vernacular Voice and Text-Based AI Agent - We are developing a conversational RAG-based AI agent to assist farmers with voice and text responses on agricultural topics. After a successful proof of concept using OpenAI, Pinecone, and Langchain, we are now advancing to train an open-source language model and plan to integrate satellite analysis for precision farming.

Grain Quality Digitization Using CNN ResNet Model - The Grain Quality Digitization project uses a ResNet model to automatically classify maize kernel quality based on images provided by farmers. Initially trained on a limited publicly available dataset, the model's accuracy improved as more images were added, with data augmentation and hyperparameter optimization.

Brand Listening & Sentiment Analysis - For a US-based mattress company, provided valuable insights into how customers perceive the brand, its products, and services by analysing online conversations, social media interactions, and customer reviews. These findings helped the company improve products, address customer concerns, and refine marketing strategies to enhance brand reputation and satisfaction.

Clustered & Analysed Data - Extracted and Analysed data from HomeOwner Association (HOA) PDF documents & categorized & store the data in a SQL database, paving the way for a front-end service that provides users with insights based on the uploaded HOA documents.

Sales & Inventory Analysis - For retail client SaveMore, developed sales and inventory dashboards. The sales dashboard helped identify sales trends, seasonal fluctuations, top-performing products, and customer buying patterns across stores. The inventory dashboard tracked stock levels, demand forecasts,

& reorder points, optimizing inventory management & reducing costs by preventing over or understocking.

Build Sales Pipeline by Analyzing Text Data - The project focused on scraping publicly available data and using NLP techniques to analyze company and professional information. This approach improved the client's sales strategies by increasing lead generation by 30%, boosting conversion rates by 15-20%, and reducing the sales cycle by 15%. This approach streamlined the sales process, allowing the client to prioritize opportunities and optimized follow-up actions, resulting in faster deal closures.

Developed Machine Learning based Stocks Trading Strategies - For a Equity trading company created ML based algorithmic trading strategies. The project involved designing, implementing, and optimizing Machine Learning based algorithmic trading strategies tailored to meet the specific requirements of clients. The goal was to develop automated trading systems that can execute trades based on predefined criteria and parameters. Conducted back testing to evaluate strategy performance using historical data & optimize strategies for maximum efficiency, profitability, and risk mitigation. Backtested strategies resulted in a quantifiable improvement in traders' profitability, with an average increase of 10% in profits across tested strategies.

Developed Smart Stocks Screeners - Developed custom trading screeners for retail traders, implemented on cloud servers for seamless access and scalability. These screeners allowed clients to filter thousands of stocks based on specified criteria, helping them uncover hidden opportunities. Real-time alerts and notifications kept traders updated on price movements and market events, enabling quick action. The screeners increased the number of identified trading opportunities by 10 times compared to manual stock filtering.

CORPORATE EXPERIENCE

Wipro Technologies, Technical Lead/Manager

Oct 2011 - Feb 2014

ANZ Bank - Migration Project - Managed a 15+ member team to migrate servers and software to the latest version, overseeing project planning, scheduling, staffing, and coordination with the offshore team. Actively participated in weekly client meetings and daily stand-up calls to track progress, manage risks, and ensure on-time deliverables. Involved in resource management, cost estimation, work allocation, and project performance reporting. Also, travelled to Australia for client engagements & requirement gathering.

CITI Bank Project - In CITI Bank's project, led an 8+ member technical team in operational risk management, focusing on data analysis, database design, PL/SQL development, code review, & testing cases. Involved in technical discussions with the client on requirement gathering, application & database architecture design. Also managed project documentation, stakeholder communication, and escalations.

ACS - A Xerox Company

Jan 2009 - Oct 2011

Michlen/ Office Depot - Implementation Digital Fuel BI Tool - Built and trained a 10+ member team, implementing the Digital Fuel Service Flow BI Reporting tool for various clients. Provided technical guidance on BI reporting, data analysis, and system integration. Conducted daily status calls to address technical challenges and bottlenecks. Managed capacity planning, resource allocation, and ensured optimal use of tools like project management software and technical dashboards to track progress and enhance service performance.

3i Infotech - India/US

Jan 2005 - Dec 2008

PSCM, John Snow Inc - Oracle BI Reports, Database Objects - Gathered requirements and delivered Discoverer BI reports, coordinating with the offshore team for module delegation and clarifications. Tested deliverables to ensure they were bug-free and met client specifications. Involved in database design, PL/SQL development, and creating Oracle BI reports, including developing and customizing PL/SQL objects and managing testing before deployment to UAT or production.

EDUCATION

UIET - Kanpur University | B-Tech | Electronics & Communications

June 2000 - July 2004