

# Harmanpreet Singh

*Full Stack Developer — AI/Machine Learning Engineer*

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## Summary

Innovative and results-oriented Full Stack Developer and AI/Machine Learning Engineer with expertise in architecting scalable web applications and deploying AI-driven solutions that enhance business operations. Proficient in using the MEAN stack to build robust, efficient systems and applying advanced machine learning techniques to drive data insights. Known for boosting operational efficiency, automating tasks with AI, and delivering high-impact, user-centric software solutions. Proven track record of reducing costs, improving performance, and enhancing customer satisfaction. Eager to leverage expertise in a forward-thinking organization to drive innovation and value.

## PROFESSIONAL EXPERIENCE

### NextGen AI Company

*September 2024 - Present*

#### AI/Machine Learning Engineer Intern

Technologies Used: Python, Scikit-learn, TensorFlow, Flask, NLP, Git

- Enhanced the accuracy of machine learning models by 15% through model tuning and feature engineering, resulting in a 12% boost in decision-making efficiency across departments.
- Built an AI-driven customer support chatbot, automating 70% of inquiries, cutting operational costs by 25%, and saving 50+ hours of manual labor per month.

### Freelance Full Stack Developer

*2021 - Present*

#### Full Stack Developer

Technologies Used: MEAN Stack (MongoDB, Express.js, Angular, Node.js), Git, Docker

- Delivered 10+ web applications that improved user retention by 40% through responsive design, performance optimization, and streamlined user flows, resulting in increased revenue for clients.
- Spearheaded the deployment of Dockerized applications, reducing deployment time by 25% and scaling solutions to handle 20% more concurrent users, enhancing client satisfaction.

### Webtech Institute and Vocational Training

*July 2022 - Present*

#### Digital Marketing Specialist

Technologies Used: Google Analytics, SEO Tools, Social Media Platforms, Google Ads

- Boosted organic traffic by 35% and improved lead generation by 20% by deploying data-driven SEO strategies and optimizing content based on analytics.
- Increased ROI on marketing campaigns by 22% through precise targeting and continuous campaign optimization, resulting in improved engagement and lower acquisition costs.

## PROJECTS

### AI Projects (2024)

#### Sales Forecasting Model

Technologies Used: Python, Scikit-learn, Pandas, Matplotlib

- Developed a machine learning model with 85% accuracy that optimized inventory management and improved sales forecasting, leading to a 10% revenue increase.
- Implemented advanced feature selection techniques, reducing forecasting errors by 18%, which allowed for more effective demand planning and supply chain efficiency.

#### AI-Driven Chatbot

Technologies Used: Python, NLP Libraries (NLTK, SpaCy), Flask

- Engineered a chatbot that reduced customer service response times by 40%, increasing customer satisfaction by 15% while handling 70% of customer inquiries autonomously.
- Improved the chatbot's conversational accuracy by 30% through advanced NLP model training, leading to more precise and natural interactions with users.

### Full Stack Projects (2023)

#### E-commerce Platform Development

Technologies Used: MEAN Stack (MongoDB, Express.js, Angular, Node.js), REST APIs, JWT

- Designed and launched an e-commerce platform capable of handling 5,000+ concurrent users, leading to a 25% increase in sales transactions and a 30% reduction in downtime.
- Integrated secure payment gateways and AI-powered product recommendations, increasing average order value by 15% and improving user experience.

#### Task Management Application

Technologies Used: Angular, Node.js, Express.js, MongoDB

- Developed a task management app that streamlined team collaboration and boosted productivity by 30%, reducing project completion time by 20
- Implemented role-based access control, enhancing data security and reducing unauthorized access by 25

## EDUCATION

### Chitkara University

*2018 - 2021*

#### Bachelor of Computer Applications

Graduated

### Heritage Public School

*2016 - 2018*

#### High School Diploma

Non-Medical Stream

## SKILLS

### Programming Languages

JavaScript (Expert), Python (Advanced), HTML/CSS (Expert), SQL (Intermediate), TypeScript (Intermediate), Java (Basic)

### Frameworks & Libraries

Angular (Expert), React (Advanced), Node.js (Advanced), TensorFlow (Intermediate), Scikit-learn (Intermediate), Keras (Intermediate)

### AI/Machine Learning Skills

- Machine Learning Algorithms: Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering)
- Natural Language Processing (NLP)
- Deep Learning Techniques: Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN)
- Model Evaluation and Optimization: Hyperparameter Tuning, Cross-Validation
- Data Preprocessing: Data Cleaning, Feature Engineering
- Deployment of AI/ML Models: Flask, AWS, Docker

### Databases

MongoDB (Expert), MySQL (Advanced), PostgreSQL (Intermediate), Redis (Basic)

### Tools & Platforms

Docker (Advanced), AWS (Advanced), Git (Expert), Kubernetes (Intermediate), Jenkins (Intermediate)

## CERTIFICATIONS

- AWS Certified Developer – Associate (2023) - Google AdWords Certified - MongoDB Certified Developer

## PROFESSIONAL DEVELOPMENT

- Completed 'AI and Machine Learning for Business' on Coursera (2023) - Attended 'AI in Action' Workshop (2023)

## PERSONAL PROJECTS

- Developed a personal finance management app using the MEAN stack, increasing user retention by 25% through user-friendly design and effective budget tracking.
- Contributed to open-source projects involving real-time chat applications using WebSockets and Node.js, improving application scalability and performance by 20%.