Jaspreet Singh Nahal

Noida, India jaspreetnahal100@gmail.com +91-9999604054

linked in. com/in/ja spreet-nahal-github. com/merciless-admiral-3083-https://tinyurl.com/ja spreetnahal-github.com/merciless-admiral-3083-https://tinyurl.com/ja spreetnahal-github.com/merciless-admiral-github.com

Summary

Results-driven Computer Science Engineering student specializing in Artificial Intelligence and Machine Learning with proven expertise in full-stack development, cloud computing, and software engineering. Experienced in developing scalable AI solutions, NLP-based chatbots, and automated trading platforms using Python, React.js, and modern web technologies.Built and deployed a QR Code Generator web app. Multiple hackathon participation with hands-on experience in agile development, API design, and performance optimization. Seeking software engineering and AI engineering roles to leverage technical skills and innovative problem-solving abilities.

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, C, JavaScript

Web Technologies: HTML5, CSS3, React.js, Node.js, Flask, FastAPI, Express.js, Axios, JWT, REST APIs

Databases: SQL, PostgreSQL, MongoDB, Redis, MySQL

AI/ML: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV

DevOps & Tools: Git, GitHub, CI/CD, VS Code

Core Competencies: Algorithms, Data Structures, Object-Oriented Programming (OOP), API Integration

EXPERIENCE

AI Chatbot Developer

August 2024 – September 2024

Project Experience/Freelance

Noida, India

- Developed an AI-powered chatbot with React.js frontend and Flask-based backend using Python
- Integrated NLP capabilities to personalize conversations and improve response relevance
- Embedded real-time API calls to deliver dynamic, data-driven answers and simulate intelligent troubleshooting
- Achieved a 25% improvement in user interaction time by optimizing conversation flow and interface design

Algorithmic Trading Developer

November 2024 – December 2024

Project Experience/Freelance

Noida. India

- Enforced an automated stock trading system implementing the SMA (Simple Moving Average) crossover strategy
- Designed an intuitive dashboard to monitor trade signals and visual market trends, enabling better user decision-making
- Enhanced backend performance using Flask and PostgreSQL, resulting in a 30% reduction in trade latency
- Scaled the system to handle increased trading volume with optimized data handling and async processes

PROJECTS

Resumè Skill Extractor | Python, REST-API Development, NLP, PDF Parsing, React

June 2025

- Developed a web application that extracts and categorizes skills from PDF resumes using advanced text analysis and document processing methods.
- Built a RESTful backend to process uploaded resumes and identify both technical and soft skills from a curated skills database.
- Designed a React frontend with drag-and-drop PDF upload and dynamic display of categorized skills.
- Enabled recruiters and job seekers to efficiently analyze resumes and streamline candidate screening with structured skill insights.

AI Restaurant Appointment Scheduling Chatbot | Python, Flask, MongoDB, AI Models

February 2025

- Executed an intelligent chatbot that automates restaurant booking using NLP-based conversation flow
- Integrated MongoDB for dynamic data handling and enhanced booking reliability
- Reduced manual scheduling efforts by 60% with fully automated appointment logic
- Delivered real-time booking confirmations and status updates via chat interface

SMA Crossover Stock Trading System | Python, Flask, PostgreSQL, Data Visualization

December 2024

- Applied an automated stock trading platform using SMA crossover strategy to identify profitable trade signals
- Enabled real-time stock data analysis via a custom data streaming pipeline with Flask and PostgreSQL
- Designed interactive dashboards to visualize trends and assist in decision-making
- Boosted trading execution speed by 30% through backend optimizations and algorithm refinement

AI Document Reader and Invoice Matching System | Python, Flask, AI Models

October 2024

- Constructed an AI-powered tool to automatically read, classify, and match invoices using text similarity and extraction techniques
- Automated recurring invoice workflows, cutting manual data entry by 50%
- Reduced error margin by 20% through enhanced entity recognition and validation logic
- Integrated Flask APIs for flexible input handling and process automation

AI Chatbot | React.js, Python, Flask, RESTful API

September 2024

- Implemented a real-time AI chatbot using React.js for the frontend and Flask APIs for backend logic
- Engineered a scalable chatbot using NLP models with RESTful APIs and real-time data handling, enhancing user engagement
- Improved API performance and reduced response latency by optimizing request handling
- Achieved 30% user retention during peak traffic by maintaining seamless response quality

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University

Uttar Pradesh

Bachelor of Technology in Computer Science Engineering (Artificial Intelligence)

Expected June 2027

CGPA: 8.2/10

CERTIFICATIONS

Google: Prompt Design in Vertex AI, Responsible AI: Applying AI Principles with Google Cloud

IBM: Accelerating Deep Learning with GPUs

GUVI: GUVI Hackathon - GUVI Geek Networks, IITM Research Park

HACKATHONS

Samsung Solve for Tomorrow - Samsung

July 2025

• Built an AI-based Sign Language to English Translator using computer vision and deep learning to detect hand gestures and translate them into English

NationBuilding Hackathon - Unstop

April 2025

 Architected an AI-based Restaurant Manager chatbot to automate bookings, staff queries, and feedback loops using Flask and MongoDB

Google Solutions Challenge - Google

March 2025

• Collaborated on a real-world solution addressing local issues using Google technologies. Focused on scalable architecture and user-centric design

GUVI Hackathon - IITM Research Park

February 2025

• Implemented an NLP-based Resume Skill Extractor to identify key candidate strengths from resumes for recruiters