Lakshya Goel

Aspiring AI Engineer and Data Scientist

I am a final-year B.Tech student specializing in Artificial Intelligence and Data Science, with a strong foundation in AI principles, algorithms, and data-driven problem-solving. I have hands-on experience in developing AI models, simulating complex scenarios. My participation in robotics competitions, hackathons, and coding challenges has enhanced my technical skills and fostered a passion for innovation and teamwork. I am eager to leverage my expertise in a dynamic role where I can contribute to cutting-edge projects in AI and data science.

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EDUCATION

B.Tech
Maharaja Agrasen Institute of Technology, IPU
09/2021 - 09/2025   *India, Delhi*

Courses
- B.Tech in Artificial Intelligence & Data Science

PERSONAL PROJECTS

AI Learns To Play Flappy Birds using NEAT Algorithm
- Developed an AI agent to play Flappy Bird using the NEAT algorithm, with Python and Pygame for game mechanics and visualization, demonstrating neural network evolution and genetic algorithms in a real-time environment.
- Key Skills: Python, NEAT Algorithm, Neural Networks, Pygame, Genetic Algorithms, AI Model Development

Teaching Rockets To tackle Obstacles Using Genetic Algorithm
- Developed a simulation where rockets learn to navigate obstacles using a genetic algorithm in JavaScript, optimizing their paths through iterative evolution, demonstrating skills in AI, problem-solving, and JavaScript programming.
- Key Skills: JavaScript, Genetic Algorithms, AI Simulation, Problem-Solving, Algorithm Optimization.

Converting Text To Images Using Stable Diffusion
- Developed a system that generates images from text descriptions using Stable Diffusion, showcasing skills in deep learning and image synthesis.
- Key Skills: Stable Diffusion, Deep Learning, Image Synthesis, NLP.

Basic Server To Allow Multi-Player Game (Copy of agar.io)
- Created a server for a multi-player game similar to Agar.io using PHP and JavaScript, enabling real-time interactions and game state management.
- Key Skills: PHP, JavaScript, Real-Time Networking, Game Development, Server-Side Scripting.

2D Web Based Game (Copy of PVZ)
- Developed a 2D web-based game replicating the gameplay of Plants vs. Zombies, utilizing HTML, CSS, and JavaScript for interactive and responsive game design.
- Key Skills: HTML, CSS, JavaScript, Game Development, Interactive Design.

3D Web Based Basic Game using THREE.js
- Created a 3D web-based game using THREE.js, implementing interactive 3D graphics and real-time rendering with custom physics for an engaging user experience.
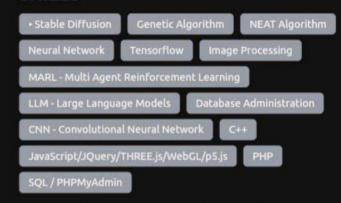- Key Skills: THREE.js, 3D Graphics, Web Development, Real-Time Rendering.

Copy of Facebook (GoChat, abandoned)
- Developed a social networking platform similar to Facebook, named GoChat, using PHP, SQL, AJAX, and JavaScript for user profiles, messaging, and social features. The project was eventually abandoned.
- PHP, SQL, AJAX, JavaScript, Web Development, Social Networking Features.

Movie Recommendation System
- Developed a movie recommendation system using collaborative filtering and content-based algorithms to provide personalized movie suggestions. Implemented the system using Python for data processing and a web interface for user interaction.
- Key Skills: Python, Collaborative Filtering, Content-Based Recommendation, Data Processing, Web Development.

SKILLS

• Stable Diffusion | Genetic Algorithm | NEAT Algorithm
Neural Network | Tensorflow | Image Processing
MARL - Multi Agent Reinforcement Learning
LLM - Large Language Models | Database Administration
CNN - Convolutional Neural Network | C++
JavaScript/JQuery/THREE.js/WebGL/p5.js | PHP
SQL / PHPMyAdmin

ACHIEVEMENTS

First Position in Toyota International Conference on Safer Mobility at IIT Delhi (05/2019)
Awarded with 10,000 INR

Fourth Position in IIT Hackathon (12/2019)
Awarded with MI Band

Won the CBSE regional level Math Exhibition (01/2019)

Participated in Delhi Traffic Police Safe India Competetion (2018)

ORGANIZATIONS

Arya Scans (2023)
Helped with translations, and participated in web dev support

Fraxinus (2021 - 2022)
Helped with proofreading and translations

SK Marbles (2024 - Present)
Helped with Technical Solutions

LANGUAGES

Hindi
Full Professional Proficiency

English
Full Professional Proficiency

INTERESTS

Basketball | Skating | Lawn Tennis | Novel Reading

WORK EXPERIENCE

Web Developer
Arya Scans

2023 - 2023
*Helped as a voluntary work in a Not For Profit organization in developing the bare
skeleton of web page*