

# Tanishk Raj

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## SKILLS

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- **Languages:** Python, C, C++, Java, SQL, Bash (Shell Scripting) Linux, PL/SQL
- **Frameworks:** TensorFlow, Scikit-Learn, NLTK, Hugging Face Transformers
- **Tools/Platforms:** Git, GitHub, pandas, NumPy, Matplotlib, AWS, Docker
- **Subjects:** DBMS, Linear Algebra, Calculus & Optimization, Probability & Statistics, Artificial Intelligence
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability

## PROJECTS

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- **CART-POLE BALANCING BOT | Reinforcement Learning Model** November 2024  
: Developed a **Cart-Pole Balancing Bot** using reinforcement learning to maintain balance by adjusting the cart's position.  
: Implemented **Q-Learning (QN)** and OpenAI Gym environment to train the model for optimal stability and control.  
: **Tech:** Q-Learning, Open-Gym, Scikit-Learn.
- **EMOTION, VIOLENCE AND HATE SPEECH DETECTOR | NLP Model** October 2024  
: Built an NLP-based model for detecting hate speech, emotional tone, and violent intent by analyzing and classifying text according to sentiment and purpose.  
: Applied **machine learning and deep learning methods** to detect toxic content and strengthen content moderation capabilities.  
: **Tech:** Spacy, TensorFlow, NLTK
- **MEDICOZ | AI Health Platform** October 2024  
: Created a web app for diagnosing psychological and physical diseases and recommending nearby specialist doctors.  
: Used **fuzzy logic** (5 levels) for psychological and ML models for physical disease prediction.  
: Handled **ML pipeline** and deployed using GitHub and Git. Integrated a **chatbot** for user support.  
: **Tech:** Python, Fuzzy Logic, Machine Learning, Git
- **KBC QUIZ GAME | Static Game Website** July 2024  
: Designed a responsive and engaging user interface, enhancing the gaming experience.  
: Used **docker** for containerization and **Jenkins** for CI/CD Pipeline.  
: Practically implemented and tested the concepts of **Prompt Engineering** with Blackbox Ai for guidance.  
: **Tech:** HTML, CSS, Bootstrap, jQuery, Jenkins, Docker

## CERTIFICATES

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- Cloud computing with AWS – **Gokboru Tech.** June 2024
- Prompt Engineering for ChatGPT – **Vanderbilt University (Coursera)** May 2024
- Front-End Web Development – **Udemy** Sept 2024
- Artificial Intelligence Foundations - **LinkedIn Learning** Dec 2023

## ACHIEVEMENTS

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- **Participated in Smart India Hackathon**  
Contributed to a disease prediction app, leading ML development for a 95% accuracy model and live deployment within 24 hours
- **TCS CodeVita Season 12**  
**Qualified for Round 2 of TCS CodeVita Season 12**, securing an **All-India Rank of 3928** among thousands of participants in one of the world's largest coding competitions.
- **Community Development Volunteer**  
Contributed in serving society with **Glad Bharat Foundation** and also got chance to get featured in **Josh Talks Documentary**.

## EDUCATION

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- **Lovely Professional University** Punjab, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 8.92* Since August 2022
- **Delhi Public School** Gaya, Bihar  
*Intermediate; Percentage: 89.6%* April 2020 - March 2022
- **Takshila School** Gaya, Bihar  
*Matriculation; Percentage: 87.6%* April 2018 - March 2020