Nayan Shekar

81399-00511 / nayanshekartg@gmail.com / linkedin.com/in/nayan-shekar / github.com/nyyyannn

EDUCATION

Dayananda Sagar Academy of Technology and Management Bengaluru, KA
Bachelor of Engineering in Computer Science and Design *Dec. 2022 – Present*
- **CGPA:** 8.78

PROJECTS

LearnSphere / *MongoDb, Node.js, Express.js, React* Jan. 2025 – Feb. 2025
- Implemented user authentication and course uploads.
- Developed an interactive full-stack learning platform enabling users to **upload, manage, and consume courses** through a single authenticated account.
- Implemented **secure user authentication and authorization** using **JSON Web Tokens (JWT)** and **MongoDB** for persistent user and course data storage.
- Deployed the platform for public access.
- **Live Link:** LearnSphere

Survive the Wild / *Godot* Oct. 2024 – Dec. 2024
- Designed and developed a 2D survival game using Godot, featuring an open-world forest environment.
- Implemented a fully functional inventory system with stackable items and collectible objects.
- Created enemies that drop loot, which can be stored in a working chest system.
- Developed a ranged combat system.

Adaptive Sudoku / *Python, Tkinter, Scikit-learn* Apr. 2025 – Present
- Designed a dynamic Sudoku game that adjusts puzzle difficulty in real-time based on user performance.
- Built a puzzle generator using backtracking and integrated a regression model to predict cell removal based on gameplay metrics.
- Captured user data like time taken, mistakes made, hints used, and solve success to train the difficulty model.
- Developed a functional GUI using Tkinter; frontend migration to React in progress.
- Implemented core game logic, model feedback loop, and UI integration to enable adaptive puzzle generation

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask
Developer Tools: Git, GitHub, Postman, VS Code, PyCharm, StarUML, Figma
Libraries: pandas, NumPy, Matplotlib, Scikit-learn, Seaborn

Coursework

Meta Android Developer / *Coursera*
- Leant how to create applications for Android.
- Best practices for designing User Interface.
- Create cross-platform mobile applications using React Native.

IBM AI Developer / *Coursera*
- How to build AI-powered apps and chatbots.
- Using python and Flask to develop and deploy AI applications on the web.