# Sunny Anand

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## SKILLS

- **Languages:** C++, JavaScript, Python, Java, C#
- **Frameworks:** React.js, Next.js, TypeScript, Django, TailwindCSS, Node.js
- **Tools/Platforms:** MySQL, MongoDB, NumPy, Pandas, Tensorflow
- **Soft Skills:** Problem-Solving Skills, Adaptability

## PROJECTS

- **SanskritAI – AI Learning Sanskrit Platform (sanskritai.in)** : June-Present
  - AI-powered platform for learning Sanskrit, creating a personalized and interactive learning experience.
  - Used Next.js for both frontend and backend development, optimizing server-side rendering and API integration.
  - Incorporated PyTorch and HuggingFace for AI-driven content generation and natural language processing.
  - Deployed the platform on AWS, applying DevOps practices for scalability and reliable performance
  - Teach**:** Next.js, React.js, Python, PyTorch, Hugging Face, AWS, DevOps

- **DivineWall – 4K AI Generated Wallpaper (divinewall.in) :** October-Present
  - Developed the DivineWall platform, a solution for generating and displaying 4K images with a divine theme.
  - Built using TypeScript, Next.js, and React.js for a seamless and responsive user experience.
  - Integrated AWS S3 for efficient image storage and AWS CloudFront for fast, secure content delivery globally.
  - Enabled users to view and interact with high-resolution, AI-generated images, optimized for both performance and visual quality
  - Founded and grew a startup, acquiring 7000+ users across 15 countries, driving engagement and global reach.
  - Tech: TypeScript, Next.js, React.js, Replicate, AWS S3, AWS CloudFront

- **Heart-Disease Prediction Model** : April-2024
  - Designed a machine learning model to predict heart disease based on patient health metrics.
  - Trained the model on a dataset with 1024 rows and 14 columns, including key health parameters.
  - Apply Python, Scikit-Learn, and Pandas for data preprocessing, feature selection, and model training.
  - Implemented Logistic Regression, Random Forest, and SVM, achieving 86% accuracy.
  - Evaluated model performance using ROC-AUC, confusion matrix, and precision-recall metrics.
  - Teach: Python, Pandas, NumPy, Scikit-Learn, Matplotlib
- **Motion Detection Alarm System using OpenCV:** September2024
  - Built a real-time motion detection system that triggers an alarm upon detecting movement.
  - Utilized OpenCV for video processing and background subtraction to track motion.
  - Implemented Contour detection and Frame Differencing techniques for accurate movement detection.
  - Blended an alarm system (sound alert or email notification) to enhance security.
  - Optimized system performance by reducing false alarms through Gaussian Blur and thresholding techniques.
  - Tech Used: Python, OpenCV, NumPy
- **Auto Express: Highway Heist** – Action 2D Game | Unity, C# March-2025
  - Designed engaging levels, dynamic obstacles, and smooth player controls.
  - Implemented combat mechanics, enemy AI, and player upgrade systems.

- **Weather Application :** April-2025
  - Developed a Weather App to fetch and display real-time weather data for any city.
  - Shows key weather details: temperature, humidity, wind speed, and conditions.
  - Deployed on Vercel for fast and reliable access
  - Tech Used: React.js and OpenWeatherMap API.

## CERTIFICATES

- Mastering Data Structure & Algorithms using C and C++ | Abdul Bari (Udemy)
- Full Stack Development | Dr. Angela Yu (Udemy)

## EDUCATION

**Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; August 2022