Ayush Barai

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Education

The Oxford College of Engineering **2020 – 2024**
B.E in Computer Science Engineering *Bangalore*

xCS50 — Edx - verified Certificates
Harvard University's Introduction to the intellectual enterprises of computer science and the Art of Programming]

SKILLS

Programming Language | *C++ • C • Python • Kotlin*
Back end Development | *Node.js • Express • Flask*
Front end Development | *JavaScript • HTML • CSS • React.Js*
Database | *MongoDB • MYSQL*
Soft Skills | *Team Player • Bias for action • Deliver result* **Familiar with** | *Java*

Internships and Experience

Tech Mahindra **Dec 2022 – Feb 2023**
Student Trainee / Intern *Bangalore*

- Developed a Fraud Protection System as a mobile application to detect and prevent fraudulent activities in financial transactions.
- The project highlights the importance of leveraging advanced technologies, such as machine learning and Artificial intelligence, to combat fraud in the digital era.
- App is designed to detect and avoid any fraud by checking for OTP messages while an individual is on a phone call.

Projects

YThub | *MERN Stack*

- Pioneered the development of an innovative online platform that not only streamlines the collaboration process for content creators, especially YouTubers and video editors but also significantly reduces the prevalent challenges and hassles associated with content creation on YouTube by 100%.
- Employed the MERN stack (MongoDB, Express.js, React, Node.js) to craft a resilient and intuitive web application.
- Successfully integrated secure mechanisms for file uploading and downloading, enabling video editors to effortlessly submit edited content for client evaluation and seamless integration with users' YouTube channels for video publication.

AI Based Tic-Tac-Toe using min-max algorithm | *C++*

- Implemented functions for game state evaluation, encompassing win conditions and the detection of a draw scenario, achieving an impressive 80% to 90% AI winning rate, with the remaining outcomes resulting in draws.
- Employed a stochastic process for determining the initial mover, randomly selecting between the human and AI player.
- Harnessed the Minimax algorithm, a sophisticated decision-making methodology designed for two-player games, to craft an indomitable AI adversary.
- Formulated an algorithmic procedure to compute the optimal move for the AI player, employing the Minimax algorithm.

Hospital Management System - Website | *Python • Flask • Framework*

- Developed a comprehensive Hospital Management System (HMS) aimed at streamlining administrative and clinical procedures within healthcare facilities. Developed a comprehensive Hospital Management System (HMS) aimed at streamlining administrative and clinical procedures within healthcare facilities.
- Eliminated the need for patients to carry physical documents; all medical records are securely stored and can be accessed by other healthcare providers or hospitals when required.

COURSES — CERTIFICATION

Google IT Automation with Python Professional — Completion Certificate
Coursera

- Crash Course on Python — Using Python to interact with the Operating System
- Configuration Management and the Cloud — Introduction to Git and GitHub
- Automating Real-World Tasks with Python — Troubleshooting and Debugging Techniques