

Fazal Shaik

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SUMMARY

Enthusiastic B-Tech student in AI-ML and IoT at SRM University, eager to join a creative and innovative workplace where I can contribute my energy and technical skills. Passionate about exploring my potential while aiding the organization's growth through continuous learning and innovative problem-solving.

PATENTS & PUBLICATIONS

- Published Patent: **A System and a Method for Automated Attendance Registration (ID: 202441077282)**.
- Published Patent: **A System for Smart Indoor Localization and the Method Thereof (ID: 202441067500)**.

PROJECTS (ML & WEB)

Attendance autocapture using CNN & k-means clustering algorithm

- Designed an automated attendance system using CNN and k-means clustering to capture and manage attendance data. The system leverages ML for increased accuracy and efficient data handling.

Traffic detection and management using YOLO algorithms

- Developed a comprehensive traffic management system using YOLO algorithms combined with IoT devices. This system improves traffic flow and monitoring, achieving 91% accuracy in traffic optimization.

Deployed website 201cAnyhomework.co201d

- Created a global file-access website with c#(.NET) and MSSQL, managing over 1.25 million events and 221,000 views in two months.

Deployed website 201cHackkaro.com201d

- Built a cybersecurity learning platform for beginners using c#(.NET) and MySQL, providing educational resources and interactive content.

Deployed website 201cthesulthan.com201d

- Created a website with c#(.NET) and mysql aimed at providing social service during the COVID-19 pandemic. The platform offered support and resources for retail shops, including assistance with operational challenges and customer engagement during the crisis.

EXPERIENCE / INTERNSHIP

Artificial Intelligence Tutor at ULEARN

September 2024 - November 2024

- Designed and delivered comprehensive AI curriculum from foundational to advanced concepts, tailored to the needs of students.
- Conducted interactive sessions covering topics such as machine learning, neural networks, and deep learning with hands-on projects.
- Evaluated student progress through assessments and practical tasks, fostering an engaging learning environment.

Data Analyst Intern at Movidu

August 2023 - December 2023

- Analyzed and processed weather data from various states to ensure accurate and timely updates in the system.
- Utilized advanced data analytics tools and techniques to improve data accuracy, enhance reporting mechanisms, and streamline data management.
- Created detailed reports and visualizations to present findings and insights, aiding in decision-making processes and operational efficiency.

EDUCATION

SRM University AP

8.47 CGPA

Bachelor of Technology in Computer Science and Engineering

RESEARCH

Attendance Monitoring Using ML

- Developed a CNN-based attendance system integrated with IoT devices like Raspberry Pi and Arduino.
- Enhanced system efficiency by combining CNN with real-time data processing, achieving high accuracy in attendance tracking.

Traffic Management Using ML

- Designed and implemented a real-time traffic control system using YOLO algorithms for vehicle detection and classification.
- Integrated with real-time data sources and IoT devices to optimize traffic flow, achieving significant improvements in traffic management efficiency.

SKILLS

- **Programming Languages:** Python, TypeScript, JavaScript, C/C++, Java
- **Frontend Development:** React.js, Next.js
- **Backend Development:** Node.js, PostgreSQL, Redis, API Development (REST, GraphQL)
- **AI & Machine Learning:** Transformer Architectures (HuggingFace), PyTorch, OpenAI (GPT models), Deep Learning Models (Computer Vision and NLP)
- **DevOps & Cloud Tools:** Docker, AWS, CI/CD Pipelines (GitHub Actions, Jenkins), Git
- **Software Engineering Tools:** VS Code, PyCharm, Testing Frameworks (Jest), Linting Tools (ESLint, Prettier)
- **Other Skills:** Client-Server Model, Algorithms and Data Structures, Database Optimization
- **Soft Skills:** Problem-Solving, Abstract Thinking, Strong English Proficiency

ACHIEVEMENTS

- Published Patent: A System and a Method for Automated Attendance Registration (ID: 202441077282)
- Published Patent: A System for Smart Indoor Localization and the Method Thereof (ID: 202441067500)
- Gold medal for research project Traffic Management and Maintenance (April 2024)
- Gold medal for research project SyncHome-AI-Bot Empowering User Recognition, Interaction, and Task Execution using YOLO algorithms (April 2024)