PIYUSH KUMAR SHARMA

piyushkumar40515s@gmail.com | Gurugram, India

Portfolio: https://scienhac.vercel.app | GitHub: github.com/ScienHAC

LinkedIn: linkedin.com/in/piyush-078455221 | Blog: scienhac.blogspot.com

PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate specializing in AI & ML with proven expertise in full-stack development, machine learning, and IoT systems. Experienced in JavaScript, TypeScript, Python, React, Next.js, Node.js, and cloud technologies. Demonstrated leadership through 30+ GitHub repositories, open-source contributions, and hackathon victories. Seeking software engineering opportunities to leverage technical skills and innovation mindset in building scalable, impactful solutions.

EDUCATION

Bachelor of Technology (Hons.) - Computer Science & Engineering, AI & ML

K.R. Mangalam University, Gurugram

~ 2024 – 2028 | CGPA: 9.6 | Dean's Honor List

Relevant Coursework: Data Structures & Algorithms, Machine Learning, Deep Learning, IoT Systems, Cloud Computing, Software Engineering

Kendriya Vidyalaya (KV)

~ 2022 – 2023 | Percentage: 89.2%

Kendriya Vidyalaya (KV)

~ 2020 – 2021 | Percentage: 84.5%

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, C, C++, Java

Frontend Technologies: React, Next.js, HTML5, CSS3, Tailwind CSS, Chakra UI, Bootstrap

Backend Technologies: Node.js, Express.js, REST APIs, GraphQL, WebSockets

Databases: MongoDB, PostgreSQL, Firebase, Redis, MySQL

Cloud & DevOps: AWS Amplify, Vercel, Docker, GitHub Actions, CI/CD

AI/ML Frameworks: TensorFlow, PyTorch, OpenCV, scikit-learn, Pandas, NumPy

IoT & Embedded: ESP32, Arduino, Raspberry Pi, MQTT, Bluetooth LE

Tools & Platforms: Git, GitHub, VS Code, Postman, Figma, Linux

KEY PROJECTS

- **Smart-Vitals IoT Healthcare System**

Technologies: ESP32, React, MongoDB, MQTT, WebSockets

Developed real-time patient monitoring system with ESP32 sensors and React dashboard. Achieved <200ms latency for 4 simultaneous patients. Integrated ECG and SpO2 sensors with cloud database.

Impact: Demonstrated to medical professionals; 95% accuracy in vital sign detection

- **ScienHAC Blog & Portfolio Platform**

Technologies: Next.js, TypeScript, GraphQL, AWS Amplify

Built full-stack blogging platform with CMS integration and automated deployment. Implemented SEO optimization and responsive design.

Impact: 2,000+ monthly users; Google Lighthouse score 95+/100

- **BCI Hands-Free Cursor Control**

Technologies: Python, TensorFlow, OpenBCI, Computer Vision

Developed brain-computer interface for cursor control using EEG signals and CNN classification. Implemented real-time signal processing pipeline.

Impact: 76% accuracy on 4-class EEG dataset; open-sourced on GitHub

- **AI-Powered Waste Sorting System**

Technologies: Raspberry Pi, YOLOv5, OpenCV, Python

Created automated waste classification system using computer vision. Integrated servo motors for physical sorting mechanism.

Impact: 85% mAP accuracy; 92 items/min processing; Smart India Hackathon finalist

EXPERIENCE & CONTRIBUTIONS

- **Open Source Contributor & Maintainer**

GitHub Community (ScienHAC) | 2021 – Present

  - Maintained 30+ repositories with 400+ commits and active community engagement
  - Contributed to major open-source projects including React ecosystem libraries
  - Created iot-sensor-kit TypeScript SDK with 200+ weekly npm downloads
  - Led 5-member team in GirlScript Summer of Code 2024 with 98% issue closure rate

- **Technical Content Creator**

ScienHAC Blog & Medium | 2022 – Present

  - Published 15+ technical articles on React, IoT, and AI with 50,000+ total reads
  - Created tutorial series on ESP32 programming and full-stack development
  - Featured writer on Dev.to with consistent engagement and community recognition

- **Hackathon Mentor & Technical Judge**

University Coding Clubs | 2023 – Present

- ◦ Mentored 35+ teams in AI/IoT hackathons with focus on technical feasibility
- ◦ Conducted workshops on MERN stack deployment and cloud integration
- ◦ Designed problem statements for Smart India Hackathon university rounds

ACHIEVEMENTS & CERTIFICATIONS

- • Smart India Hackathon 2024 National Finalist - Hardware/IoT Track
- • Dean's Honor List - K.R. Mangalam University (Top 10% of class)
- • Code Odyssey Global Hack 2023 - 1st Place HealthTech Category
- • AWS Academy Cloud Foundations Certified
- • Google TensorFlow Developer Certificate
- • Meta Frontend Developer Professional Certificate (Coursera)
- • Published researcher - IEEE Student Branch technical papers

KEYWORDS: Full Stack Developer, Software Engineer, React, Next.js, Python, JavaScript, TypeScript, Node.js, Machine Learning, Artificial Intelligence, IoT, Cloud Computing, AWS, MongoDB, PostgreSQL, Git, Agile, Scrum, Computer Vision, Data Science, Web Development, API Development, Database Design, System Design, Problem Solving, Team Leadership, Open Source, Hackathon Winner