

PAVAN KUMAR BITRA

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PROFESSIONAL SUMMARY

Aspiring data and software professional with expertise in Python, SQL, Power BI, and machine learning. Passionate about creating impactful solutions through data-driven insights and innovative front-end development.

EDUCATION

KKR and KSR Institute of Technology and Sciences

2021 - 2025

Bachelor of Technology in Computer Science and Data Science

CGPA: 7.84

SKILLS

Programming Languages

Python, C, Java.

Frameworks

TensorFlow, PyTorch, Keras, React Js.

Tools & Databases

Power BI, Excel, Git, MySQL.

Soft Skills

Communication, Leadership, Teamwork, Problem-solving.

EXPERIENCE

Front-End Developer Intern

July 2024 - Present.

INNOVARSITY

Vijayawada

- Developed two responsive web applications using React.js and Bootstrap with custom hooks and reusable components
- Increased user traffic by 30% through implementation of dynamic content loading and intuitive UI/UX features
- Reduced load times by 20% through code optimization and implementation of lazy loading techniques

Artificial Intelligence Intern

Oct 2023 - Feb 2024.

GoPrac

Bangalore

- Built AI-powered automation tools using Python and TensorFlow, cutting processing time by 40%
- Implemented prompt engineering techniques across multiple AI models, optimizing response accuracy by 35%
- Increased user satisfaction by 25% through implementation of automated error handling and intuitive interfaces

Python Developer Intern

Oct 2022 - Dec 2022

Yhills

Noida

- Engineered Python modules for machine learning algorithms, accelerating data processing speed by 25%
- Transformed 50GB of unstructured Kargil region data into actionable insights using pandas and NumPy
- Built interactive Power BI dashboards that improved stakeholder decision-making efficiency by 30%
- Implemented automated data cleaning pipelines, reducing manual processing time by 40%

PROJECTS

Secure Access

- Developed a triple-layer authentication system with 90% accuracy, integrating facial recognition and gesture verification using OpenCV and TensorFlow. Achieved real-time gesture recognition with 95% accuracy and 24+ FPS processing. Implemented dynamic filters for real-time performance tracking using TensorFlow, React.js, Flask, OpenCV, Python, and SQL.

AcademicPulse

- Developed an academic dashboard tracking 4,000+ students across 7 branches, streamlining college management decisions. Built an automated system analyzing 4 years of student data, reducing reporting time by 60%, and implemented a real-time inventory management system with cloud to enhance operational efficiency. Engineered a custom analytics system to identify underperforming students, using Python, SQL, and Power BI.

ACHIEVEMENTS

- Secured 5th place at a college-level hackathon for a vibrant marketplace design with strong community engagement.
- Ranked among the top 25 most innovative projects in a nationwide hackathon hosted by Algorand.
- Published two patent applications for innovative solutions and performance enhancements in authentication and transactions.

POSITIONS OF RESPONSIBILITY

- Student Lead at Innovation Club:** Organized 10+ events for 300+ participants and facilitated career discussions.
- Mentor at Jevan Kaushal Club:** Led workshops on communication, time management, and leadership.
- Head Coordinator, Avishkar Club:** Managed projects, led a 20+ member team, and won Best Coordinator Award.