# Punya K Sirohi

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## SUMMARY

Computer Science student proficient in software development, machine learning, and scalability solutions. Strong skills in Python, JavaScript, C++, and Unix/Linux environments. Built 4+ production applications serving 1000+ users with proven results in artificial intelligence and natural language processing.

## EDUCATION

- **Vellore Institute of Technology, Chennai** — Chennai, Tamil Nadu
  *Bachelor of Technology in Computer Science and Engineering; Expected April 2027* — *2023 – 2027*
  - **Relevant Coursework**: Data Structures & Algorithms, Software Engineering, Database Systems, Computer Networks, Object-Oriented Programming

## PROJECTS

- **FocusFlow - AI-Powered Productivity Platform**: Full-stack productivity app with Django REST Framework backend and Flutter mobile frontend. Serves 500+ users with 85% retention rate. Implemented machine learning algorithms for task prioritization, reducing completion time by 40%. Built scalable architecture supporting concurrent users with PostgreSQL database. *GitHub*
- **IBM Watson AI Sentiment Analysis Engine**: Machine learning system analyzing 10,000+ hotel reviews with 92% accuracy using IBM Watson AI and natural language processing. Implemented data visualization dashboard and automated reporting features, reducing manual review time by 80%. Built with Python, Pandas, and Jupyter notebooks. *GitHub*
- **Ink-Well - Django Blog Platform**: Modern blog application serving 1000+ monthly users with 99.9% uptime. Features user authentication, content management, CSRF protection, and SQL injection prevention, reducing security vulnerabilities by 95%. Built with Django, Bootstrap, and SQLite database. *GitHub*
- **DailyIO - Entertainment Web Platform**: High-performance web platform serving personalized content to 2000+ monthly visitors with 4.8/5 user satisfaction. Optimized loading times by 40% through efficient caching and mobile-responsive design. Built with JavaScript, Node.js, deployed on Vercel. *Live — GitHub*

## TECHNICAL SKILLS

- **Programming Languages**: Python, JavaScript, Java, C/C++, SQL, HTML5, CSS3
- **Frameworks & Technologies**: Django, Django REST Framework, Node.js, Flutter, Bootstrap, Unix/Linux
- **Software Engineering**: RESTful APIs, Microservices, Database Design, Software Design Patterns, Troubleshooting
- **AI & Data Science**: Machine Learning, Natural Language Processing, IBM Watson AI, Data Compression, Information Retrieval
- **Tools & Platforms**: Git, GitHub, Docker, VS Code, Postman, PostgreSQL, SQLite, Vercel, CI/CD Pipelines

## ACHIEVEMENTS & ACTIVITIES

- **Open Source Contributions**: Active contributor with multiple public repositories and consistent development activity
- **Technical Projects**: Built 4+ full-stack applications demonstrating scalability, distributed systems, and modern software design
- **AI & ML Experience**: Completed IBM Watson AI certification project on sentiment analysis and data processing