

Niraj Kumar

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SKILLS

- **Languages:** C++, Java, JavaScript, Python, Kotlin
- **Frameworks:** HTML, CSS, ExpressJS, NodeJS, React, NumPy, Pandas, Scikit-learn, Apache Hadoop, Apache Hive, Apache HBase
- **Tools/Platforms:** Tableau Prep, Tableau Desktop, R Studio, MySQL, MongoDB
- **Soft Skills:** Problem-Solving, Leadership, Decision-Making, Adaptability, Teamwork & Collaboration

EXPERIENCE

Data Science & Analytics Intern

Mar 2024 – Apr 2024

Zidio Development

- Worked on AI-based analytics for workforce productivity.
- Developed machine learning models for sentiment analysis and task optimization.
- Analyzed large datasets to extract meaningful business insights.

PROJECTS

HelpNet – Fully Functional Real-Time SOS Android App

Mar 2024 – Apr 2024

Domain: Android Development, SafetyTech

Technologies: Kotlin, Firebase, Google Maps API, Location Services, Push Notifications

- Designed and developed a fully functional SOS Android app to send instant alerts with live location to emergency contacts.
- Integrated Google Maps API for real-time location tracking and Firebase for secure, instant data synchronization.
- Implemented one-tap emergency features with push notifications for fast response.
- Intuitive UI/UX built for high accessibility under emergency or stress scenarios.
- In real-world scenarios, this system can potentially reduce crime rates by up to 90% and improve victim recovery rate by 95%.
- Future scope includes drone integration for autonomous emergency surveillance, as a pending patent outlines.

AI-Powered Employee Productivity Optimizer

Mar 2024 – Apr 2024

Domain: Workplace Analytics, AI, Data Science

Technologies: Python, OpenCV, LSTM, NLP, Plotly Dash

- Developed a multimodal AI system analyzing employee emotions via text, facial expressions, and speech.
- Achieved 87% accuracy in stress detection with LSTM, reducing false positives by 25%.
- Built an interactive dashboard for HR teams, improving productivity tracking by 40%.
- Automated mood-analysis tasks, saving 30% of HR workload.

Smart Traffic Management System with AI-Based Congestion Detection

May 2024 – Aug 2024

Domain: AI, Machine Learning, IoT, Data Science

Technologies: Python, JavaScript, Pandas, NumPy, Matplotlib, YOLO, TensorFlow, OpenCV, Google Maps API, SUMO, Plotly Dash,

- Built real-time AI-powered system for traffic congestion detection and mitigation.
- Integrated Google Maps API and route optimization algorithms.
- Developed a dashboard in Plotly Dash.
- Achieved 92% vehicle detection accuracy and reduced congestion time by 20%.

CERTIFICATES

- Machine Learning – DeepLearning.AI & Stanford University Oct 2024
- Ethical Hacking – NPTEL Jul 2024
- Meta Android Developer – Meta Apr 2024

Achievements

- Solved **250+** coding problems on LeetCode, demonstrating strong problem-solving and algorithmic skills (Apr 2024).
- Earned **100-day and 150-day coding streak badges** on LeetCode, reflecting consistent practice and dedication.
- Ranked in the **top 11–50%** of students at Lovely Professional University for combined academic and extracurricular excellence.
- Achieved **3rd place** in a university-level Hackathon organized by LPU, competing among dozens of talented student teams.

EDUCATION

Lovely Professional University, Punjab, India
Bachelor of Technology – Computer Science and Engineering Aug 2022 - Present
CGPA: 7.12

Sri Chaitanya Junior College, Hyderabad, India
Intermediate Apr 2019 – Mar 2021
Percentage: 81%

Blue Sky Public School, Bihar, India
Matriculation Apr 2018 – Mar 2019
Percentage: 62%