Niraj Kumar

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SKILLS

- **Languages**: C++ (for Data Structures and Algorithms), Java, JavaScript, Python (for machine learning), Kotlin
- **Frameworks**: HTML, CSS, ExpressJS, NodeJS, React, NumPy, Pandas, Scikit-learn,
- **Tools/Platforms**: MySQL, MongoDB
- **Soft Skills**: Problem-Solving | Leadership | Decision-Making | Adaptability | Teamwork & Collaboration

INTERNSHIP EXPERIENCE

- **Data Science & Analytics Intern** *Mar 2025 -present*
  Zidio development
  - Worked on AI-based analytics for workforce productivity.
  - Developed machine learning models for sentiment analysis and task optimization.
  - Analysed large datasets to extract meaningful business insights.
- **Advanced Coding Trainee** Jan 2025 – Feb 2025
  Cipher Schools
  - **Overview:** Completed an intensive DSA Bootcamp, solving 100+ coding problems and improving algorithm efficiency by 40%. Enhanced problem-solving skills, achieving a 30% faster solution execution time in competitive programming
    Skills: DSA, Problem Solving, Java, Competitive Programming

PROJECTS

- **AI-Powered Employee Productivity Optimizer** March,2025 -present
  Domain: Workplace Analytics ,AI, Data Science
  Technologies: Python, OpenCV, LSTM, NLP, Plotly Dash
  Developed a **multimodal AI system** analyzing employee emotions via text (NLP), facial expressions (OpenCV), and speech (Librosa).
  Achieved **87% accuracy** in stress detection using an optimized LSTM model, reducing false positives by 25%.
  Built an **interactive dashboard (Plotly Dash)** for HR teams, improving productivity tracking by 40%.
  Automated manual 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 Used: Python, JavaScript| **AI/ Data Science**: Pandas, NumPy, Matplotlib
  ML: YOLO, TensorFlow, OpenCV | **APIs**: Google Maps API| **Cloud**: AWS| **Tools**: SUMO, Plotly Dash, Firebase
  Project Description: Developed an AI-powered system to detect and mitigate traffic congestion in real-time using Y TensorFlow, and OpenCV. Integrated Google Maps API for real-time traffic data and implemented route optimization algorithms to reduce congestion. Built an interactive dashboard using Plotly Dash for real-time traffic monitoring and deployed the system on AWS. Achieved 92% accuracy in vehicle detection and reduced congestion time by 20%.

CERTIFICATES

- Machine Learning – DeepLearning.AI & Stanford University · October, 2024
- Ethical Hacking – NPTEL · July,2024
- Excel Skills for Business – Macquarie University · June, 2024
- Meta Android Developer – Meta · April, 2024

ACHIEVEMENTS

- **Solved 250+ problem on Leetcode**: April 2024
  That show dedication and Consistency
- **Secured 100 and 150 days badge from Leetcode**:
  Focusing on algorithmic problem solving and optimizing
- **One among S1 top 11-50 % students at University**:
  For good academic performance and extra-curricular activities at university.
- **Secured 3rd rank in the Hackathon:**
  Participated in the Hackathon organized by LPU.

EDUCATION

- **Lovely Professional University.** Punjab, India
  Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.71** *Since August 2022*
- **Sri Chaitanya Junior College** Hyderabad, India
  Intermediate; **Percentage: 81%** *April 2019 - March 2021*
- **Blue Sky public school** Bihar, India
  Matriculation; **Percentage: 62%** *April 2018 - March 2019*