

Brajesh Kumar

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Skills

- **Programming Languages:** Python, SQL, Bash
- **Frameworks/Libraries:** Keras, scikit-learn, OpenCV, NLTK, spaCy, TensorFlow, Fuzzy Logic, Python pickle, scikit-learn
- **Tools/Platforms:** Git, GitHub, Docker, Jenkins, Streamlit, DevOps
- **Data Analysis:** pandas, NumPy, Matplotlib, Seaborn, Plotly
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, communication skills

Experience

AI Instructor – READ India NGO	<i>Apr–Jun 2023</i>
<ul style="list-style-type: none">• Delivered AI and ML workshops to 100+ students, guiding hands-on coding sessions and project development.• Enhanced student understanding of machine learning concepts and engagement	

Projects

<ul style="list-style-type: none">• Maze Runner Game — Microservices Web Game<ul style="list-style-type: none">• Built a maze game using Flask, Docker, and microservices with real-time UI, Jenkins CI/CD, modular backend.• The game challenges players to navigate through a randomly generated maze, providing unique and engaging gameplay.• Features real-time feedback and random maze generation for an engaging user experience.• Implemented Jenkins CI/CD pipeline for continuous integration and deployment. Tech: Python, Flask, Docker, Git	LINK <i>Mar 2025</i>
<ul style="list-style-type: none">• Named Entity Recognition App<ul style="list-style-type: none">• Developed an interactive NER web application using CRF for entity tagging.• The app processes input text to identify various named entities such as persons, locations, organizations, and time expressions.• Built with Python, spaCy, NLTK, and Streamlit to allow real-time predictions.• The application offers color-coded entity labels for better visualization of entity recognition.• Integrated sklearn-crfsuite for model training, hyperparameter tuning, and improving the accuracy of entity extraction. Tech: Python, CRF (Conditional Random Fields), NLTK, spaCy, Streamlit, sklearn-crfsuite, Machine Learning	LINK <i>Nov–Dec 2024</i>
<ul style="list-style-type: none">• Real-Time Face Mask Detector Software<ul style="list-style-type: none">• Developed a real-time face mask detection software using deep learning for face detection and mask classification.• Leveraged OpenCV for real-time face detection and used a pre-trained MobileNetV2 model for mask classification.• Processed live video streams and detected multiple faces simultaneously with bounding boxes and mask labels.• Fine-tuned the MobileNetV2 model by adapting it to a custom dataset for accurate mask classification.• Optimized the model by training only the top layers while freezing the base layers, leveraging pre-trained features from ImageNet. Tech: Python, OpenCV, Keras, TensorFlow, NumPy, imutils, Fine-tuning, MobileNetV2, CNN	LINK <i>Mar–Apr 2024</i>

Achievements

• Achieved 90 WPM typing speed	Link
• Research Paper Accepted for Publication — <i>NER using CRFs</i> (Sep 2024)	Link
• Top 10% Dean’s List, LPU (Aug 2024)	Link

Certifications

• IBM DevOps and Software Engineering	Link
• Mastering Data Structures Algorithms using C and C++	Link
• NPTEL Cloud Computing	Link
• Python Bootcamp: Zero to Hero	Link
• Static Routing Using Packet Tracer	Link

Education

• Lovely Professional University, Punjab, India Bachelor of Technology - Computer Science and Engineering	<i>Aug 2022 – Present</i> <i>CGPA: 7.43</i>
• Indian Public School, Madhubani, Bihar Intermediate	<i>Apr 2018 – Mar 2020</i> <i>Percentage: 70.2%</i>
• Indian Public School, Madhubani, Bihar Matriculation	<i>Apr 2017 – Mar 2018</i> <i>Percentage: 72.3%</i>