

Khimraj Suthar

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EXPERIENCE

- Ivy Homes** Bengaluru, IN
Senior Software Engineer, Machine Learning June 2021 - Present
 - Steering the development of OCR, Entity Extraction, Document Classification, Text Clustering, Pricing(Valuation) Model, Liquidity Model, and intuitive Chatbot for real estate using ChatGPT.
 - Implemented Django-based Pricing Model with VPN security for safeguarding sensitive internal data.
- Skillbee** Remote
Machine Learning Intern April 2021 - June 2021
 - Developed solutions for Job Recommendation and Relevance challenges.
 - Enhanced CV relevance on the platform from 65% to 93% through deep learning-based document classification.
- Amazon** Remote
Software Development Engineer Intern May 2020 - July 2020
 - Designed, developed and deployed a responsive lender runbook website for Amazon Pay Later Service on AWS.
 - Achieved an 80% reduction in standard partner materials' preparation and exchange time.
 - Successfully implemented code in production, resulting in a full-time job offer.
 - Secured the top position in a 3-day team hackathon with 30+ participants.

SKILLS

- Proficient:** Python | SQL | Algorithms | Data Science | EDA | AI | Machine Learning | Deep Learning | NLP | Computer Vision | AWS | GCP | Tensorflow | Keras | Scikit-Learn | Numpy | Pandas | Matplotlib
- Familiar:** C | C++ | HTML | CSS | Java | JavaScript | Bootstrap | JQuery | GitHub | Information Retrieval | Generative AI | LLM | CI/CD

PUBLICATIONS

- Paper: Human Activity Recognition using Accelerometer and Gyroscope Data from Smartphones:** Khimraj, P. K. Shukla, A. Vijayvargiya and R. Kumar, "Human Activity Recognition using Accelerometer and Gyroscope Data from Smartphones" 2020 International Conference on Emerging Trends in Communication, Control and Computing (ICONC3), India, 2020.
- Paper: Voting-based 1D CNN model for human lower limb activity recognition using sEMG signal:** Vijayvargiya A, Khimraj, Kumar R, Dey N. Voting-based 1D CNN model for human lower limb activity recognition using sEMG signal. Phys Eng Sci Med. 2021 Nov 8. doi: 10.1007/s13246-021-01071-6. Epub ahead of print. PMID: 34748192.

PROJECTS

- Indoor Localization For 5g And Beyond(BTech Thesis Group Project):**
 - Pioneered a groundbreaking MOIL deep learning method for indoor localization through CSI data analysis.
 - Achieved remarkable localization accuracy with mean distance errors of just 0.01m in Line-of-Sight (LOS) and 0.02m in Non-Line-of-Sight (NLOS) scenarios, surpassing existing techniques by an impressive 96%.
- Automated Tweets Report:**
 - Developed a Python script to gather tweets based on specific keywords and mention a designated Twitter handle.
 - Conducted sentiment analysis for each tweet, providing scores within the range of [-1, 1].
 - Produced comprehensive Excel reports with 5+ columns and implemented automatic email delivery.
 - Deployed the solution on AWS EC2, employing cron jobs to execute the script at scheduled times on a daily basis.

EDUCATION

- Malaviya National Institute of Technology (MNIT)** Jaipur, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.70/10 August 2017 - June 2021

COURSEWORK

- Undergraduate:** Design and Analysis of Algorithms | Data Structures and Algorithms | Database Management System | Operating System | Computer Networks | Digital Image Processing | Natural Language Processing | Object-Oriented Analysis and Design | Deep Learning | Advanced Topics in Databases | Concurrent and Parallel Programming | Software Engineering | Computer Organization and Microprocessors | Computer Architecture | Compiler Design | Systems Programming
- Additional:** Machine Learning | Mathematics for ML | Deep Learning Specialization | TensorFlow Specialization

ACHIEVEMENT

- Rated 1993 on Codechef and 1766 on LeetCode(Solved 500 problems).
- Secured 582/4700 rank in Round F and 608/6200 rank in Round H of Google Kick Start coding competition 2020.