



Gurazeez Singh

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📍 Work: Noida (India)

ABOUT ME

Versatile and Detail-Oriented Software Engineer | 2 years of experience building solutions with Java, Spring, Python, JavaScript, Machine Learning & GenAI | Passionate about Innovation and Emerging Technologies

WORK EXPERIENCE

Software Engineer

Nucleus Software (NSE: NUCLEUS) [05/07/2023 – Current]

City: Noida | Country: India

- Designed and implemented a Generative AI-driven video generation pipeline to create and deliver informative videos in local Indian languages, explaining key banking concepts such as KFS, loan account statements, and other critical information, aimed at enhancing accessibility for rural and underserved bank customers.
- Developed a generative AI-powered telephone chatbot for a bank, automating customer outreach for missed payments, recording promises to pay and negotiating payment plans, reducing operational costs.
- Built document processing microservices to perform quality Assessment, details Extraction and automatic cropping, classification, sorting and masking of uploaded documents to Enterprise Content Management (ECM) and Customer Acquisition Systems (CAS) Utilizing cloud-native architecture. It will help in reducing wastage of time and manpower involved for data entry, verification, and KYC stages.
- Developed an internal chatbot tool using LLama-3.1 LLM and RAG (Retrieval Augmented Generation) to assist in responding to RFPs (Requests for Proposal) from potential clients. This reduced the time and effort invested, while minimizing errors and inconsistencies in responses sent to clients.
- Implemented a face image extraction and matching service for verifying identity during KYC and to check for mismatches in uploaded documents, eliminating dependence on external third-party provider.
- Created a dataset consisting of hundreds of thousands of properly annotated synthetic Images of Aadhar Cards, PAN cards, Driving Licenses and other documents for the purpose of training machine learning Models to perform document detection, document classification and details extraction tasks.

Technologies: Python (NumPy, pandas, PyTorch, Langchain), SQL, Java, Spring, Hibernate, Azure - Machine Learning, Git, Jira, Jenkins

Communication Systems Intern

Ericsson India / 5GIF [01/05/2022 – 30/07/2022]

City: Noida | Country: India

- Created interactive web pages using JavaScript and Observable for implementing radio-communication models based on ITU-R recommendations.
- Implemented models for analysis of transmission of signals, calculation of satellite positioning, apparent elevation angles, tropospheric scintillation, impact of ground clutter and profile of propagation path on signal transmission.
- **Impact** - It helped in making calculations for creation of a new generation network systems (5G) which could deliver extreme broadband, ultra-robust, low latency connectivity. Also, using this platform will make it easy for team to integrate more interactive models in the future.

Technologies: Python, JavaScript, D3.js, numjs, jstat, Observable (visualization tool)

SKILLS

Good programming skills (C, Python, Java, C++) / Frameworks: Spring, Spring Boot / Git / Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. / Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation / GIT version control, Linux Command / Web Technologies Fundamentals - HTML, CSS / Deep Learning frameworks: PyTorch, TensorFlow, Keras

EDUCATION AND TRAINING

Bachelor of Engineering

Delhi Technological University (DTU) [2019 – 2023]

City: Delhi | Country: India | Field(s) of study: Electronics and Communication ; Computer Engineering (Minor) | Final grade: 8.23/10

Class XII - CBSE

Delhi Public School, R. K. Puram [2019]

City: Delhi | Country: India | Final grade: 91.6% (458/500)

Class X - CBSE

The Khaitan School, Noida [2017]

City: Noida | Country: India | Final grade: 95% (10/10)

REFERENCES

Sendil Kumar (Ericsson India)

- Co-ordinator (5GIF WG.TEG)
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