

Sagnik Sarkar

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EDUCATION

- National Institute of Technology Hamirpur** Hamirpur, India
• *Master of Technology in Computer Science and Engineering; GPA: 8.86* Sept 2020 - July 2022
- University Visvesvaraya College of Engineering** Bengaluru, India
• *Bachelor of Engineering in Electronics and Communications Engineering; First Division* Aug 2014 - June 2018

EXPERIENCE

- Samsung Data Systems (Samsung SDSI) (Currently in SIEL Noida)** Noida, Delhi NCR
• *Solution Consulting / Management Innovation Team (MIS)* 18th April 2023 - Today
 - **Consultant:** Responsible for looking after the manufacturing process and maintaining the business process of over a million Samsung products weekly. Critical Data gathering and analysis from live servers on a daily basis. Looking after the Samsung Electronics MES. Developed RPA projects thus automating the Financial work while eliminating multiple manpower and saving millions per month for Samsung Electronics.
- Samsung Data Systems (Samsung SDSI)** Gurugram, Delhi NCR
• *Solution Development (Senior Executive) / Development Team (previously DevOps Team)* 9th May 2022 - 18th April
 - **Developer:** Acted as one of the key players in developing the frontend of the cloud-based multi-million dollar project **Cloud MES**. Monitored and suggested using the **8-bit architecture** in the project frontend as well as the backend to avoid memory wastage, thus **saving cloud deployment costs** of clients. Updated it to **Cloud MES v2**. Updated a few APIs with new ones.
 - MDM Generator (Admin Panel for Cloud MES)** Created an Admin Panel for the Cloud MES Software where users or admin can fully control and monitor the visibility of the data in the software and use them as needed. Bugs debugged. Reviewed and deployed code efficiently. Performed **CI/CD** pipeline on a regular basis in the project

SKILLS

- **MES:** Used MES and ERP for managing the business process and productions.
- **Data Analysis:** Used MySQL and Oracle DB to analyze huge data. Wrote scripts in Python to streamline the process
- **Software:** Used GIT to monitor and approve pull requests, Vue JS, Python, MySQL, MES,

INTERNATIONAL PUBLICATIONS

- **Combining the Knowledge Graph and T5 in Question Answering:** (Published) In 2nd International Conference on Sentiment Analysis and Deep Learning under the supervision of Dr. Pardeep Singh at NIT Hamirpur
Link: Combining the Knowledge Graph and T5 in Question Answering in NLP
- **The task of Question Answering in NLP A Systematic Literature Review:** (Published) In INDO-Hungary Fifth International Conference **ICRIC-2022 Volume 2** under the supervision of Dr. Pardeep Singh at NIT Hamirpur
Link: The Task of Question Answering in NLP: A Comprehensive Review

PROJECTS

- CLOUD MES** Samsung SDS
• *Software Developer* 10th May 2022 - 18th April 2022
 - **Frontend Developer:** Multimillion-dollar Cloud-based MES software is responsible for the production of multimillion devices in Samsung HQ Korea and its Partners on a daily basis.
- MDM Generator** Samsung SDS
• *Software Developer* 4th Jan 2022 - 18th April 2022
 - **Developer:** Administrative privilege software for MES developed by Samsung SDS. Used by Samsung Korea HQ
- KT5** NIT Hamirpur
• *Developer and Architect* 5th May 2021 - 9th May 2022
 - **NLP Model Developer:** Significant improvement over BERT, Graph Models, and T5 Base. Removed the unnecessary complexity and space from these models resulting in a significantly better F1 score with limited resource constraints.
- SwiftPay** UVCE
• *Developer and Architect* 5th Jan 2018 - 9th May 2018
 - **Developer:** Veratile Universal and secured payment process. The project revolved around the data-gathering capability of microcontroller and Image recognition technology. NoSQL database is used to maintain each transaction. Microcontroller data is encoded and decoded so that it is highly secured.

HONORS AND AWARDS

- **Winner of Bronze medal** for NFL Big Data Super Bowl 2021 Prediction 2021 by Kaggle and NFL USA
- Lead a team in Genetic Engineering Attribution Challenge organized by ALTLABS: **Global Ranking: 298**
- Lead a team in Flu Shot Learning: **Global Ranking: 376**
- Wireless Sensor Networks Workshop: Organised by **IIT Delhi** and secured 3rd position
- Prodigy Case Study: Participation Certificate in Prodigy Case Study at **IIM Bangalore** 2020, 2021
- Illuminate Case Study: Participation Certificate in Illuminate Case Study at **IIM Calcutta** 2021
- **CCRT** National Visual Arts and Painting Scholar and National Level Swimming Champion