

## WORK EXPERIENCE

**Digital Solutions Engineer (Assistant VP)** **Swiss Re** **Oct 2023 – Ongoing**

- Currently building **GPT4-o** and **GPT4o-mini** based large scale documents orchestration frameworks using Foundry and Spark for global risk engineering and property underwriting function in commercial insurance, with capabilities to process **1000+** documents in **1 hour** with maximum throughput and **90-95% Precision/Recall**.
- Leading the knowledge workstream of educating and upskilling the business users and internal audience regarding **AI governance, model governance** and **GenAI ethics** as a part of **Fair, Transparent and Accountable AI adoption** within the organization.
- Lead the end-to-end design and development workstream for implementation of an **in-house LLM results' evaluation and benchmarking framework** using Palantir foundry across **different LLM providers** (*OpenAI GPT variants, Gemini, Llama, Mistral etc.*)
- Leading the engineering frontier for end-to-end big data analytics and reporting based analytical solutions in a cross-regional and cross functional team using Palantir Foundry and Azure.

**Associate Digital Solutions Engineer** **Swiss Re** **March 2020 – Sept 2023**

- Lead the complete engineering and deployment setup for key customers' and vendors' invoices data ingestion automation framework using Palantir Foundry and Azure (*Azure Document intelligence and Azure Translation services*), leading to **annual time savings** and **efficiency gain** of approx. **6500 hours**.
- Collaborated cross functionally with product team and business team for end-to-end data ingestion and migration from source systems (traditional MS SQL server and Oracle databases) to Palantir foundry as a part of complete overhaul and revamp of the BU's data model leading to better throughput and data availability for the business by **20%**.

**Graduate ML Engineering Intern** **Swiss Re** **June 2019 – February 2020**

- Successfully developed and deployed a text-mining framework for commercial insurance risk screening which is actively used by global risk engineering and underwriting function (**500+ DAU**) leading to approx. increase in **CMR of USD 5M** due to improved cost containment.
- Engineered and deployed an MVP in the form of an end-to-end pipeline for automatic Segmentation of standard carrier reports as a part of global risk engineering and underwriting for synchronized Information Extraction and document classification which **reduced the Turn-around time** for key customers by **40%**.

**Technical Intern** **Schneider Electric** **Summer 2017**

- Worked on the hardware design and software schematics of Smart Uninterrupted Power Supply Systems based on IGBT (Insulated Gate Bipolar Transistor) Technology.
- Worked on designing and rendering the Electrical Layout of large-scale data centres and equipment using **Autodesk Revit 2017**.

**Embedded Systems Intern** **WebTek Labs** **Winter 2016**

- Mainly worked on designing a fully functional prototype of RFID based Attendance System using Advanced Virtual RISC (AVR) microcontrollers.
- Worked on embedded software development using state machines for Traffic control systems, coffee vending machines and washing machines using the **IBM Rhapsody Tool**.

## TECHNICAL SKILLS

- Programming Languages** – PySpark, Python, C++,
- Operating Systems** – Ubuntu 16.04 LTS, Windows
- Database and Cloud Services** - MySQL, Microsoft SQL Server, Palantir Foundry, Microsoft Azure, Google Cloud Platform
- Frameworks and tools** - Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras, OpenCV, Cogito Studio
- Others** - GitHub, Docker, Flutter, Adobe Photoshop, Adobe Premiere Pro.

## EDUCATION

**Bangalore, India** **BITS Pilani** **April 2024 – ongoing**

- M. Tech.** in **Machine Learning and Artificial Intelligence** **CGPA: - /4**

**Bangalore, India** **IIIT Bangalore** **August 2019 – October 2020**

- Post Graduate Diploma** in **Machine Learning and Artificial Intelligence** **CGPA: 3.3/4**

**Chennai, India** **SRM Institute of Science and Technology** **July 2015 - May 2019**

- B.Tech.** in **Electronics and Communication Engineering.** **CGPA: 9.2/10**

**PATENTS AND PUBLICATIONS**

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- “KRISHAK”- An autonomous IOT System for Field Monitoring and Disease Identification Using Deep Learning. **Application No: 201941019154**
- Qualitative Content Analysis in Visual Question Answering based Datasets and Algorithms. *Int’l Journal of high-performance computing and networking*  
[Published](#) (Inderscience, IF: 0.71)
- Analysis of Deep Convolutional Neural Networks for Image Classification. *ICASISSET 2019*  
[Published](#) (Conference Proceedings.)
- Improvised Framework of Group Signatures with Chameleon Hashes for Online/Offline Transactions. *Future Generation Computer Systems*  
In Review (Elsevier, IF: 5.768)
- A Reinforced Framework for a Blockchain based Authentic E-Governance System using Chameleon Hashes. *Journal of Soft Computing*  
In Review (Springer, IF: 2.784)

**ACHIEVEMENTS**

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- [Scholarship of Merit – SRM Institute of Science and Technology \(July 2015 – July 2017\)](#)  
Was awarded a scholarship of *INR 92500/-* for showcasing exemplary overall performance for three consecutive years.
- [Secure and Private AI Scholarship - Facebook AI \(May 2019\)](#)  
Was among the top 5000 students from all across the globe to be selected as a recipient of the Secure and Private AI scholarship provided by Facebook AI in association with Udacity.
- [PyTorch Scholarship – Facebook AI \(November 2018\)](#)  
Was awarded the prestigious PyTorch scholarship given by Facebook AI in association with Udacity.
- [CBSE Board Topper \(May 2015\)](#)  
Received appreciation for achieving 95.4% Merit in CBSE Class XII board examinations from Mrs. Smriti Irani, the Then Minister of HRD (Govt. of India).
- [Best Speaker – ‘Digital Signal Processing \(2016\)](#)  
Was awarded the Best Speaker award for the technical talk organized by the Career Development Centre, SRM Institute of Science and Technology.
- [Swami Vivekananda Quiz – Round II Qualifier \(2014\)](#)  
Was among the Top 1000 students to qualify for the second round of the All India Swami Vivekananda Quiz with the participation of more than 85000 students across India.
- [Nirmaan Enterprises – ‘Best Business Idea in Asia Pacific’ \(2013\)](#)  
Was the co-founder of ‘Nirmaan Enterprises’ that was adjudged as ‘*The Best Business Idea in Asia Pacific*’ by the British Council with a prize money of **1000 USD**.

**LANGUAGES**

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English, Hindi, Punjabi, German (beginner level).

**EXTRA-CURRICULAR ACTIVITIES**

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- [1<sup>st</sup> Prize – KHALBALI \(Inter College Street Play Competition\)](#)  
An International Sports and Cultural Festival – RIVIERA 2017 held at VIT University (Vellore), India.
- [2<sup>nd</sup> Prize – Variety Show \(Inter College Street Play Competition\)](#)  
An Intercollegiate Cultural and Fine Arts Meet held at Jawaharlal Institute of Post Graduate Medical Education and Research (JIPMER), Pondicherry, India.