

# VEDANT MAHAJAN

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## Education

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**University of Illinois Urbana-Champaign**

**Aug 2024 – Dec 2025**

*Master's in Computer Science*

**Vishwakarma Institute of Technology, Pune (SPPU)**

**Aug 2018 – July 2022**

*Bachelor of Technology in Computer Engineering*

*9.35/10*

## Experience

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**Credit Suisse**

**July 2022 – July 2024**

*Technology Analyst*

*Pune, India*

- Developed a Java API microservice to initiate Kubernetes Jobs and Cronjobs. Containerized a monolithic time series application using Docker, enabling its migration to the cloud. This transition resulted in an 70% reduction in cost.
- Contributed in remodelling RiskCalc Engine, decoupling it from Oracle Database by implementing C++ Services, GRPC for messaging, and Redis cache, effectively managing approximately 10 million records.
- Engineered a Python module to implement complex Data Preprocessing for FRTB SA Calculations across 21 asset classes, reducing business effort by 98%.
- Automated Bank's Hierarchy Reorganization using Python, including XML modification and orphan node identification, reducing manual man-hours by 99%.
- Worked on enhancing the Script Impact Analysis Tool on AngularJS with a C++ backend and Oracle Database, optimizing performance across 1000+ scripts.
- Upgraded two complex Angular applications from version 6 to version 16, implementing code changes and resolving dependencies.

**Credit Suisse**

**June 2021 - December 2021**

*Technology Analyst Intern*

*Pune, India*

- Developed an Application for Automation of Modification of Complex XML Scripts.
- This tool reduced the time needed for Modification manually by 95% and significantly increased efficiency, worked on technologies such as C(Sharp), .NET, LINQ, GUI Development.

## Projects

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**Abstractive Text Summarization of Hindi Corpus** | *Natural Language Processing, Transformers* | [Link](#)

**July 2022**

- Facebook's fastText model is used to generate highly efficient pre-trained word representations.
- A Transformer Encoder Decoder model is utilized to extract contextual dependencies, enhancing semantic representations, resulting in concise, abstractive summaries.
- Evaluation on the Hindi news dataset, generating news article headlines, attained a ROUGE-1 precision and recall score of 0.682 and 0.598.

**Investech** | *Python, Natural Language Processing, Streamlit* | [Link](#)

**May 2021**

- Website to display ESG Scores, Tones, Word Densities based on news articles, tweets and other news sources on listed Companies.
- GDELT Database used as News Source by NLP model to calculate various metrics, a recommender system is developed using Node2Vec library to suggest companies with similar metrics.

**Chain4India** | *Hyperledger Sawtooth, Mithril JS, Node JS* | [Link](#)

**April 2021**

- Leveraged Hyperledger Sawtooth Platform for Blockchain to create an secure and trusted network for Medical Equipment Procurement.
- Implemented Concurrent Rest API's to interact with Rethink DB and Serving Web App and used Mithril JS framework to develop frontend.

## Technical Skills

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**Languages** : Python, C++, Java, Javascript, SQL, Typescript, C# **Cloud & Devops** : Azure, AWS, Docker, Kubernetes

**Frameworks** : SpringBoot, Angular, React, Django, MithrilJS, Flask, FastAPI, WinForms, CMake

**Technologies**: Databricks, Linux, Jenkins, Git, gRPC, Shell Scripting, MongoDB, Redis, Tensorflow, PLSQL

## Achievements

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- **Hackathons** : IIT-ISM Dhanbad Hackfest 2021 Winner, Rakathon 2021 Finalist about 7000 participants.
- **Certifications** : Completed Azure AZ-900 Certification and the Web Developer Bootcamp on Udemy.
- **Problem Solving** : Solved more than 700+ on leetcode, Credit Suisse's Global Coding Challenge Global Rank 219.
- **Awards** : Recieved the Go Extra Mile and 4 RAVE (Appreciation Awards) at Credit Suisse.