

# SRUSHTI B. PATIL



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## EDUCATION

- K. J. Somaiya Institute of Technology, Sion, Mumbai** (9.89/10 CGPA) 2020 - 2024  
(Bachelor of Technology (BTech) in Information Technology with honors in Data Science )
- Ryan International School, CBSE** (12th - 79.2%) (JEE mains - 87.89/100) 2018 - 2020
- St. Joseph's High School, CBSE** (10th - 91.8%) 2005 - 2018

## WORK EXPERIENCE

- TATA Power – Intern** (Python, Machine Learning, Microsoft Excel, MongoDB, Fast API, Power Bi) June 2023 – Present
  - Designed a software product to predict electric load. Developed machine learning models(LSTM, ANN, DNN, RFR) with 95% accuracy for load prediction using weather and load data.
  - Collaborated with stakeholders to refine product strategy, reducing manual efforts by 40% and saving costs.
  - Performed Data Analysis and build a dashboard using Power Bi. Effectively managed exceptions, maintaining an average Mean Absolute Error of 4.
- India Meteorological Department (IMD) - Data Science Intern** (Python, ML, API's, Flask, Redis) July 2022 – May 2023
  - Collaborated with Scientists from IMD and Developed Heatwave Watch System which aids in early prediction of heatwaves for forecasters. [Overview](#)
  - Created visualizations for temperature data and developed machine learning models (LSTM, CNN, DNN) for heatwave prediction. The current accuracy of predictions is 92.10%.
  - Build a scraper to gather real time data. Optimized data preprocessing techniques and worked on backend development.
- Open Source - GSSOC (GirlScript Summer of Code) Contributor** June 2023 – Aug 2023
  - Exposure to open-source development.
  - Engaged with project 'Moksh' and 'Face-X', gaining insights into HTML, JavaScript, CSS, Algorithms, IoT, OpenCV, Python.
  - Developed collaborative coding, adaptability, and team communication skills.
- KJSIT – Power BI Intern** June 2022 – July 2022
  - Built sales dashboard using Power BI (Data Analytics)
- KJSIT - Web Development Intern** Dec 2021 – Jan 2022
  - Centroid (Anti-Social Activity + Food Donation website) - HTML, CSS, JavaScript, MySQL, PHP
  - Developed an anonymous reporting site for reporting residential problems and a platform for restaurants or cafeterias to connect with NGOs for food distribution.

## PROJECTS

- AI Based Phishing Detection** - Python, Machine Learning, JavaScript, Cyber Security Jan 2023 – April 2023
  - Created a Chrome browser extension for real-time phishing site detection based on user-surfed URLs.
  - Extracted feature importance through Random Forest.
  - Conducted a comprehensive model comparison (Random Forest, SVM, MLP, Naive Bayes) for effective classification.
- Faraday Cage (Cold Storage Automation)** - HTML, CSS, JS, Firebase, IOT, Arduino IDE July 2022 – Nov 2022
  - Constructed and implemented an IOT project which includes an automated cooling system to optimize temperature control within a cold storage facility, enhancing efficiency and ensuring optimal conditions for storage.
- Personalized Web Browsing Assistant** (A web of things approach) - Python, Machine Learning March 2022 – May 2022
  - Developed a mechanism that analyzes user browsing history to recommend relevant sites based on their area of interest.
  - Created a Python-based system for parsing and analyzing user data from the Google Chrome Browser history.
  - Implemented Karl Pearson Correlation Coefficient for User-based Collaborative Filtering.
- HealthCare Management System** – Java, Apache NetBeans Sept 2021 – Dec 2021
  - Developed a desktop-based application to manage the entire workflow of a Health Care system.

## TECHNICAL SKILLS

**Languages:** HTML5, CSS3, Python, SQL, C, C++, PHP, JavaScript, Java

**Framework:** Flask, ReactJS

**Version Control:** Git, Github

**Database:** MySQL, MongoDB

**Data Analysis:** Microsoft Excel, Power BI, Tableau

**Technologies:** Machine Learning, Cloud Computing, DevOps, Computer Networks

## CERTIFICATES

1. Programming Foundations with JavaScript, HTML and CSS - Duke University | 2. Google Data Analytics | 3.AWS Academy Cloud Foundations | 4. AWS Academy Cloud Architecting | 5. AWS Academy Graduate - AWS Academy Cloud Security Foundations | 6. Data Visualization with Power BI | 7. Spoken Tutorial-Python, Java

## COLLEGE EXTRACURRICULAR INVOLVEMENT

- Jt. Technical Head - IET, KJSIT Aug 2021 – July 2022
- Associate - Infinite Loop, KJSIT June 2021 – Present

## SCHOOL LEADERSHIP ROLES

- Deputy Minister in the Students Council 2016 - 2017.
- School Representative at Ryan Teen Camp 2017 Pageants Round.