

SAMEER PATEL

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EDUCATION

Saint Mary's University, Halifax, Nova Scotia, Canada

Sept 2023 – Dec 2024

Pursuing Masters of Science in Computing and Data Analytics.

K. J. Somaiya College of Engineering, Mumbai University, India

Jun 2017 - Jun 2021

Secured a Bachelor of Technology in Information Technology with *Distinction*.

CGPA 8.24/10

Ranked 4th, 6th, 8th and 13th in subjects such as Data Mining, Artificial Intelligence, Business Analytics and Big Data Analytics.

PROFESSIONAL EXPERIENCE

RBL Bank, Mumbai, India

Jul 2022 – Aug 2023

Data Scientist – Client Insights

Resume Ranking and Approval Notes Parsing – Human Resources Space

- Automated the entire hiring process for employees at RBL Bank using Python, Flask and AWS Microservices, reducing manual intervention by 80%.
- Architected an entire OCR pipeline for parsing of unstructured resumes and approval notes on AWS Cloud using AWS Textract, S3 Buckets and Lambda Functions.
- Used Flask, Docker and AWS EKS for development and deployment of a web application for the Talent Acquisition Team to have provision to create structured Job Descriptions.

E-Pulse Project – Human Resources Space

- Maintained an existing In-House Machine Learning Model for Attrition Prediction, using XGBoost and provided specific recommendations, using SHAP (Shapely Additive Explanations).
- Integrated E-Pulse Module with Empower Application, which displays attrition propensity and recommendations to all the respective employee experience managers (EEMs) of RBL Bank.
- Spearheaded the project into production which included technologies such as Python and various AWS Microservices.

Technology Trainee – Client Insights

Jul 2021 – Jul 2022

DigiCatch Project – Portfolio and Fraud Risk Management Space

- Optimized an In-house AI-powered product for Fraud Risk Management of the Digital Accounts of RBL Bank using Python automation, reducing manual labour by 75%.
- Assisted and Supported Team in development of various modules associated with the project using Python and AWS.
- Handled Digital Portfolio and Fraud Risk Analytics for RBL Bank by providing insights to respective stakeholders.

Project: Darpan Phase II Project – Client Insights Space

- Implemented a Machine Learning Based Fingerprint Matching Algorithm with 83% Accuracy for Darpan Phase-II.
- Combined PyTorch based Sentiment and Emotion Analysis Models with Front-end Applications using Flask in Production.
- Innovated various NLP APIs with specific use cases such as Language Translation, Language Detection, Topic Modelling, QnA, Name Matching and Summarization using NLP and Pre-Trained HuggingFace Models in Production.

INTERNSHIP EXPERIENCE

CS Department, K. J. Somaiya College of Engineering, Mumbai, India

Aug 2020 – Nov 2020

Intern – Software Development

- Partnered with team on Design and Development of a real-time OCR Application for automation of Invoice Processing using ReactJS, NodeJS, Python, and various AWS Microservices.
- Authored and published a paper on the same in International Journal of Engineering Applied Sciences and Technology in September 2021, Volume 06, Issue 05, ISSN: 2455-2143.

Capaz InfoSystems, Mumbai, India

Jun 2020 – Jul 2020

Intern – Software Development

- Associated with the front-end Team for developing UI Components that adhered to company and usability standards.
- Constructed an interface for a client using ReactJS and VueJS which helped in optimising UI/UX for their invoice processing system.

IT Department, K. J. Somaiya College of Engineering, Mumbai, India

Sept 2019 – Mar 2020

Intern – Software Development

- Conceptualized and Developed an Online Course Portal for the IT Department of KJ Somaiya College of Engineering using PHP, HTML/CSS, JavaScript, AJAX, and Bootstrap4.
- Coordinated and led a team of 8 people in managing the entire project.

ACADEMIC PROJECTS AND PAPERS

Psyche – Mental Health Application for Students based on Cognitive Behavioral Therapy

- Led the development of a Full Stack Application using ReactJS, NodeJS, ExpressJS and MongoDB Atlas.
- Assimilated a Virtual Assistant expertise in Cognitive Behavioral Therapy using IBM Watson.
- Authored and published a paper on the same in International Journal of Innovative Science and Research Technology in August 2021, Volume 06, Issue 08, ISSN: 2456-2165.
- Awarded with 'Best Project Idea' at Ennovate, a National Level Techno-Business Competition
- GitHub Link: <https://github.com/sameer-patel-dev/Psyche>

Hexa – AI Based Health-Care Assistant

- Implemented an AI Based Multilingual Health Care Assistant, using Python and Django.
- Incorporated NLP based Disease Prediction and First Aid Recommendation model using NLTK and Deep Neural Networks.
- Provided an Emergency Room/Hospital Locator feature using Google Maps APIs on the assistant.
- Progressed through the Top 20 teams of Smart India Hackathon, 2020.
- GitHub Link: <https://github.com/sameer-patel-dev/Hexa-HealthCare-Assistant>

Cricket Analytics - Prediction Model

- Created a Prediction Model using Ridge Regression to predict the final score of a team based on various parameters.
- Amalgamated Machine Learning Model with a Web Application using Python and Flask.
- Deployed the Web application on Heroku using Heroku CLI.
- GitHub Link: <https://github.com/sameer-patel-dev/Cricket-Analytics-IPL-Score-Prediction>

Election Analysis and Visualization

- Extracted Insights out of the Electoral Details of Maharashtra, India for the year 2020-21.
- Created Visualizations based on Insights using Tableau.
- GitHub Link: <https://github.com/sameer-patel-dev/Tableau-Election-Analysis-and-Visualization>

COURSES AND CERTIFICATIONS

- Big Data for Data Engineering, SimpliLearn, Mar, 2022 | SQL Training, SimpliLearn, Feb, 2022
- Data Analyst – Master's Program, SimpliLearn, Sept, 2021 | All-in-One Python Development Suite, SimpliLearn, Sept, 2021 | Linux Training, SimpliLearn, Sept, 2021
- Microsoft AI Classroom Series, Microsoft and NASSCOM, Dec, 2020 | FrontEnd Web Development with ReactJS, Coursera, Jul, 2020
- Associate Analytics, KJSCE and RASA, July-Dec, 2019 | MEAN Stack, KJSCE, July-Dec, 2019

TECHNICAL SKILLS

- Domains - Data Science, Machine Learning, Natural Language Processing, Computer Vision, and Software Development
- Programming Languages - Python, JavaScript, PHP, R Programming
- Web Technologies - Flask, ReactJS, NodeJS, VueJS, ExpressJS, HTML, CSS, Bootstrap, jQuery, Ajax
- Other Technologies - Docker, Kubernetes, Git, GitHub, PyTorch, TensorFlow, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Tableau, Microsoft Excel, Postgres, MySQL, MongoDB, MongoDB Atlas, Selenium, Windows, Ubuntu (Linux)
- AWS Microservices - Lambda Functions, S3 Buckets, Step Functions, Textract, EventBridge, IAM Roles, EC2, VPC, ECS, EFS, EKS.

EXTRA CURRICULAR ACTIVITIES

- Received 1st Prize at AWS Internal Hackathon organized by RBL Bank, 2021. Contributed in setting up the entire architecture on AWS for the given problem statement.
- Awarded with ET Campus Coding Stars, by 'The Economic Times', 2021. 56 students out of 40,000+ registrations were selected based on various parameters.
- Engaged in College's Volleyball Team from 2017-2021. Played the role of Captain during the years 2019-21. Led the team to participate and win various College Level Competitions.
- Volunteered at Nurturing Lives - NGO. Assisted in collecting data and spreading awareness for COVID, a health initiative by Nurturing Lives in 2021.
- Secured 1st Prize in Datageddon, National Level Data Science Competition organized by Apogee, BITS-Pilani, 2021. Preprocessed dataset and trained model against various benchmarks to achieve optimal results.
- Progressed as the National Finalist at aSPire, National level Strategy Case Competition organized by SPJIMR, 2021. Worked in a team of 2 to deliver a top-notch business solution using various technological strategies.