

# ABHI CHAKRABORTY

[abhichkrbrty@gmail.com](mailto:abhichkrbrty@gmail.com) | [abchakra@syr.edu](mailto:abchakra@syr.edu) | 425-532-6725 | [linkedin.com/in/abhi-chakraborty](https://www.linkedin.com/in/abhi-chakraborty)

## EDUCATION

**Master of Science in Applied Data Science, SU, USA** [08,2023 - 05,2025]

School of Information Studies, Syracuse University, NY, USA

**Relevant Coursework:** Financial Analytics, Quant Reasoning Data Science, Applied Machine Learning, Business Analytics, NLP

**Bachelor of Science in Computer Science, VTU, India** [08,2010 - 06,2014]

Visvesvaraya Technological University, (VTU), India

**Relevant Coursework:** Data Structures & Algorithms, Statistics, Accounting & Financial Management, Computer Architecture

## SKILLS

- **Application Development Frameworks:** ReactJS, Next.js, Express.js, D3.js, Chart.js
- **Programming Languages:** Python, Java, Javascript, NodeJS
- **Database Management and Automation Testing:** SQL, MongoDB, Selenium, Cypress
- **Artificial Intelligence & Generative AI:** Large Language Models (LLMs), OpenAI API, Prompt Engineering, AI Model Interpretability
- **Data Engineering and Metrics:** PySpark, Azure Data Factory, Data Metrics
- **Machine Learning and Predictive Analytics:** scikit-learn, TensorFlow, PyTorch, Neural Networks
- **Advanced Statistical Analysis and NLP:** SciPy, NLTK, Time Series Analysis (ARIMA, GARCH)
- **Data Analysis and Visualization:** Pandas, NumPy, Matplotlib, Seaborn, MSEXcel
- **Deployment:** AWS, Google Cloud Platform

## PRESENT EXPERIENCE

**PySpark Developer / Frontend Engineer, QBE Insurance, USA** [09,2024 - PRESENT]

At QBE Insurance, I am developing a **GenAI-powered framework** that analyzes, calculates, and presents AI-driven insights on insurance claims in a user-friendly manner. The project focuses on making complex AI-generated data accessible and actionable for claims adjusters and stakeholders.

### Roles and Technologies:

- **Designed and developed** an interactive **React.js UI** to visualize AI-driven claims analysis.
- **Integrated APIs** to fetch, process, and display AI-generated claim insights dynamically.
- **Collaborated with data engineers** to structure AI data pipelines and improve model interpretability.
- **Implemented data visualization dashboards** using D3.js and Chart.js to help users analyze AI-generated claim predictions.

**PROFESSIONAL EXPERIENCE** [2014 – 2023]

**Senior Software Engineer, FireFlink, India** [06,2022 - 07,2023]

FireFlink is a high-speed test automation platform that utilizes natural language processing (NLP) to generate automation test cases from simple plain English, serving clients like Sony and various e-commerce companies.

### Roles and Technologies:

- Spearheaded UI development using ReactJS and Next.js.
- Conducted usability tests, improving design, increasing user satisfaction by 25%.
- Streamlined UI development methodologies, reducing duration by 30%.

**Senior Solution Engineer, PayPal, India** [10,2019 – 08,2021]

Operated within the privacy consent department, collaborating closely with the analytics team to gather user privacy consents and developed the UI for privacy banners across mobile and web applications.

### Roles and Technologies:

- Designed and implemented solutions for large-scale payment systems using ReactJS and NodeJS, ensuring secure transactions for 7-8 million users.
- Addressed technical challenges, enhancing system stability, and reducing service disruptions.
- Created and deployed end-to-end automation test cases using Cypress and Selenium.

**Senior Software Engineer, IBM, India****[01,2017 – 04,2018]**

Engaged in IBM Case Manager and IBM Daeja ViewONE projects. IBM Case Manager simplifies designing and building case management systems, providing a graphical user interface for case workers. IBM Daeja ViewONE ensures a consistent viewing experience for various content formats, enhancing document management capabilities.

**Roles and Technologies:**

- Collaborated with cross-functional teams on successful migrations using Java and SQL, focusing on data analysis and system improvements.
- Addressed and resolved intricate technical challenges, improving system stability and reducing service disruptions by 15%.
- Focused on backend development of the module and handled deployment responsibilities using IBM Cloud.

**Software Engineer, Robert Bosch, India****[06,2014 - 12,2016]**

Contributed to TC Portal and Data Security Audit projects. TC Portal is a domain-based framework for managing domains in the GSTC department, used by over 500 users in Bosch GmbH. DSA manages user licenses, assets, permissions, and departmental information.

**Roles and Technologies:**

- Developed the product end-to-end using Java, ensuring adherence to coding standards and best practices.
- Designed both UI and backend components, enhancing functionality and user experience.
- Utilized SQL, Servlets, JSP, and JavaScript for comprehensive project development.

**ACADEMIC PROJECTS****MarketWatch Trading Simulation, Syracuse University****[09/2024 – 12/2024]**

This project is part of the coursework in Financial Analytics, involving a live simulation of trading on MarketWatch. The objective was to develop algorithmic strategies to optimize portfolio management and maximize returns using data-driven decision-making techniques taught in class.

**Syracuse Pothole Predictor, Syracuse University****[01,2024 – 05,2024]**

This project involved developing a neural network-based prediction model to forecast pothole occurrences in Syracuse. The objective was to enhance road maintenance efficiency by predicting high-risk areas for potholes. The project utilized Python, neural networks, and advanced prediction techniques, achieving an impressive accuracy of 85%.

**Emostream, Syracuse University****[08,2023 – 12,2023]**

Developed a system to show users a video and live record their emotions via camera. Analyzed emotions with a proprietary dataset and provided comprehensive user reaction analysis for trailers, achieving accurate audience insights.

**LEADERSHIP EXPERIENCE****Digit88, India****[01,2019 – 06,2019]**

Spearheaded the architecture of ForgeAI QCTool, a platform for training AI models. Directed the development of front-end modules using React and Redux and built backend APIs with Spring Micro-services. Successfully deployed the application to the cloud using AWS, ensuring seamless integration and functionality.

**Transak, India****[09,2021 – 05,2022]**

Headed the UI team for Transit, a crypto platform, addressing bugs directly from users and debugging issues across servers and local environments. Mentored junior developers in identifying and resolving issues, enhancing their problem-solving skills. Collaborated with cross-platform teams to fix bugs and improve functionality, ensuring a smooth user experience.

**TEACHING EXPERIENCE****Instructor, Newton School, India****[12,2021 – 06,2022]**

Conducted classes for over 100 students on full-stack technologies, including HTML, CSS, JavaScript, React, Express, Node, MongoDB, SQL, and deployment. Educated students on concepts and guided them in developing practical applications and a major project utilizing the full stack technologies taught in the course.

**English Teacher, Make A Difference Foundation, India****[01,2015 – 06,2015]**

Taught English to especially abled children to improve their language skills and communication abilities. Developed tailored lesson plans, conducted interactive classes, and provided individual support to enhance learning outcomes using educational tools and interactive learning methods.