# SURAJ MISHRA

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## EDUCATION

**Northeastern University, Boston, MA** — **September 2023 – Present**
**Khoury College of Computer Sciences** — Expected graduation: 2025
Candidate for a Master of Science in Computer Science
Related courses: Algorithms, Database Management Systems, Web Development

**SRM Institute of Science and Technology, Chennai, India** — **June 2023**
Bachelor of Technology in Computer Science — GPA: 9.03
Related courses: Object Oriented Programming, Data Structures, Databases, Software Engineering, AI

## TECHNICAL KNOWLEDGE

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| **Languages**: | Java, C++, C, Python, JavaScript |
| **Databases**: | MySQL, MongoDB, PHP |
| **Web technologies**: | HTML, CSS, PHP, React, node |
| **Certifications**: | Oracle Database certification, Machine Learning by Dr. Andrew Ng (Coursera) |

## WORK EXPERIENCE

**Data/Business-analyst Intern, Highradius, Remote, IN (4 months)** — **February 2022 – May 2022**

- Led data visualization and analytics using Tableau and PowerBI to identify top potential clients from 100+ tradeshow attendees, enhancing target-specific sales strategies.
- Conducted detailed contact analysis via Excel and SQL, facilitating decision-maker identification and tailored email outreach, leveraging Python (or R) for nuanced text analytics.
- Developed strategic presentations using PowerPoint and Excel, effectively communicating data-driven insights to guide focused marketing and sales efforts, significantly contributing to client engagement and relationship building in a competitive market.

**Web-development Intern, Internship Studio, Remote, IN (2 months)** — **January 2022 – February 2022**

- Designed and implemented a dynamic, responsive full-stack e-commerce website and various web applications. Utilized HTML, CSS, JavaScript, React.js for frontend, and Node.js, Express.js for backend development.
- Integrated database functionalities using MySQL, enhancing the platform with features like user authentication, product listings, shopping cart, and secure checkout processes.
- Improved user engagement by 30% through custom CSS and JavaScript, and managed continuous updates and maintenance for high performance and content relevance.

**IT-Intern, Schaeffler India, Pune, Maharashtra, IN (1 month)** — **December 2021 – January 2022**

- Got familiarized with the IT requirements in the corporate sector pertaining to servers and networking management.
- Acquired knowledge of how IT supports different domains of business to maintain its efficiency.

## PROJECTS

**Movie Recommendation System– Full Stack Development, Personal Project**

- Utilized Python for extracting data from IMDb, demonstrating expertise in data manipulation and analysis. Integrated RESTful APIs for dynamic data communication between frontend and backend.
- Developed a custom Python recommendation engine, utilizing collaborative filtering and content-based algorithms for suggestions.
- Led UI and login system development using HTML, CSS, JavaScript, and Node.js/Express, integrating front-end design with backend functionality.

**Real-time Drowsiness Detector - Machine Learning, Research Project**

- Created a Convolutional Neural Network (CNN) to analyze real-time video feeds for driver drowsiness detection.
- Enhanced model accuracy to 79% by fine-tuning hyperparameters and implementing advanced data preprocessing.
- Integrated the model into a real-time monitoring system for proactive safety alerts.

**Employee Payroll Management System, Database Management Systems Project, Academic Project**

- Developed an Employee Payroll Management System using Python for backend functionalities, including user authentication and leave management.
- Utilized MySQL Workbench for effective database modeling, design, and SQL query execution.
- Integrated Python with MySQL using PyMySQL to manage complex data interactions, demonstrating proficiency in database management and application development.

**Utilization of Deep learning's improved feature extraction methods for different image dehazing techniques, Research Project**

- Implemented and tested various deep learning architectures like ResNet, DenseNet, AODNet, VGG16, and AlexNet using TensorFlow for image dehazing, demonstrating expertise in neural network applications.
- Applied convolutional neural network-based feature extraction techniques for enhanced image clarity, showcasing proficiency in Python and advanced image processing methodologies.
- Performed a comprehensive data analysis for model performance evaluation across different dehazing scenarios, illustrating strong analytical skills and a thorough understanding of AI-driven image enhancement techniques.
- Published a technical paper for the same in IJARCET (ISSN: 2278 – 1323).