

# Swapnil Cheerla

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## PROFESSIONAL EXPERIENCE

### Junior Application Developer, NYPTI

08/2023 – Present | Albany, United States

- Developed and implemented web applications with the C#, ASP.NET, React js, and MVC leading to a 20% increase in user experience and 30% in application performance.
- Collaborated with cross-functional teams to gather and refine project requirements, ensuring the successful delivery of software solutions.
- Implemented responsive web design techniques to enhance the usability of applications on different devices and screen sizes.
- Utilized Entity Framework for database interactions, optimizing data access and improving application efficiency.
- Developed and maintained RESTful APIs for seamless integration with external systems, resulting in improved data sharing and increased business process efficiency.
- Played a key role in the migration of legacy applications to the latest .NET Core framework, enhancing application performance and security.
- Developed and maintained complex database schemas, optimizing queries and improving data retrieval times.
- Collaborated with the testing team to identify and rectify software defects, resulting in a 20% reduction in post-release issues.
- Utilized Git for version control, ensuring code consistency and easy collaboration with team members.
- Contributed to the development of coding standards and best practices, promoting consistency and quality across the development team.

### DataScience Intern, AIML Analytics

02/2020 – 05/2021 | Hyderabad, India

- Collaborated with cross-functional teams to develop and maintain web applications using Python and Flask.
- Implemented data science techniques to analyze and extract insights from large datasets, contributing to data-driven decision-making processes.
- Designed and developed RESTful APIs for seamless integration between frontend and backend systems.
- Utilized React to create responsive and user-friendly interfaces, enhancing the overall user experience.
- Conducted thorough testing, including unit testing and integration testing, to ensure the reliability and robustness.
- Actively involved in the full software development lifecycle, from requirements gathering to deployment and maintenance.
- Assisted in the development of predictive models and algorithms to analyze and interpret complex data sets while working with Data Science team.
- Implemented data cleaning, preprocessing, and feature engineering techniques to enhance data quality.
- Collaborated with data engineers to optimize data pipelines and ensure efficient data processing.

## EDUCATION

### Masters in Data Science, University at Albany

08/2021 – 05/2023 | Albany, United States

- Participated in UAlbany showcase and presented a project of stock prediction with team members.
- Led housing project and received appreciation from professor by leveraging strong leadership and time management skills.

### Bachelors in Computer Science and Engineering, Malla Reddy Engineering College

08/2017 – 06/2021 | Hyderabad, India

- Presented Seminar on Django Framework on Topics: MTV in Django, Django apps, Django Models, Django Template

### Relevant Course Works:

DataBase Management System, Data Structure, Django, Cloud Computing, Data Analytics, Data Visualization, Algorithms, Operating System, Computer Networks, Big Data Analytics, Statistics, Stochastic Models, Machine Learning, Data Mining, Linear Algebra, Calculus.

## SKILLS

Java | Python | C | JavaScript | C# | R | HTML | CSS  
Bootstrap | React js | Node js | Express js | Flask | .NET  
ASP.NET | MVC | SQL | MongoDB | MATLAB | Scala  
Power BI | GIT | Agile | Scrum

## PROJECTS

### Housing Project

10/2021 – 12/2021

- Executed Machine Learning Algorithms i.e., KNN and Random Forest Algorithms to predict house value with reduced error rate.
- Produced ocean proximity pie-chart to drive efficient output by rendering and visualizing data with bar graphs, scatter plots, and correlation heat maps.
- Predicted and estimated locations type according to customer's budget and allow customers to find right time to buy house, resulting in 96% accuracy.
- Played an integral role in discovering relationship between house values and features, increased efficiency and accuracy.
- Accomplished in integrating Power BI to create and build interactive dashboards and reports to analyze data more effectively.
- Deployed model using AWS Elastic Beanstalk to make it available online and accessible to clients.
- Tools: Python, Jupiter Notebook, Power BI, AWS Elastic Beanstalk

### Calorie Counter Using Python

05/2021 – 06/2021

- Created and implemented a cutting-edge health tracking system that accurately measures an individual's health activity using analog scales and thermometers.
- Designed and optimized a calorie estimation architecture, leveraging object counting algorithms for precise food portion recognition. Employed Convolutional Neural Networks (CNN) for training and testing the top layers, achieving an impressive accuracy of 91%.
- Enhanced the accuracy of food calorie counting and estimation of Body Mass Index (BMI) within a comprehensive web system.
- Leveraged scientific computing methods, specifically Python, to develop sophisticated algorithms and perform in-depth data analysis for the project.
- Tools: Python, Anaconda

### Online Attendance System

12/2019 – 03/2020

- Designed and created online tools for school administration to monitor and manage students' attendance.
- Developed student attendance database using Oracle DB by implementing optimization techniques such as stored procedures, functions, views, and designing data models.
- Implemented statistical methods to generate weekly/monthly reports and graphs using student datasets from Malla Reddy Engineering College.
- Designed web application and ingested data from Tableau, resulting in a 50% increase in interface functionality.
- Tools: PHP, My SQL, Bootstrap, JavaScript, HTML, CSS, charts.js, Tableau

## LICENSES & CERTIFICATIONS

- **Google Analytics, 2023** - Demonstrates expertise in analyzing and interpreting data using Google tools for informed decision-making.
- **Machine Learning and Data Science with AWS, 2023** - Had gained Hands-on experience with Amazon Web services.
- **HackerRank Skill Verification, 2020** - Achieved Digital Skill Certificate in Python, Java, SQL
- **Python 3 Programming-Coursera, 2020**
- **Python for Everybody-Coursera, 2020** | Got familiarized with fundamentals of programming in Python.