**Sagar Ghimire**

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<https://www.linkedin.com/in/ghsagar>||<https://github.com/ghsagar>

**EDUCATION:** Claflin University Expected Graduation Date: May 2021

Bachelor of Computer Science (Minor in Mathematics and Cyber Security) || GPA: 3.98 / 4.0

**Relevant Courses:**

Web Security (Ongoing), Software Engineering, Data Structure and Algorithm, Linear Algebra, Calculus-III, Fundamentals of Computing, Operating System, Computer Organization and Architecture, Calculus-I and Calculus-II, Object-Oriented Programming, and Fundamentals of Programming

**TECHNICAL SKILLS:**

**Languages**: Python, Java, JavaScript, CSS, HTML5, SQL, PostgreSQL, and Maple || **Skills:** Machine Learning, Natural Language Processing, Deep Learning, and Data Analysis || **Tools:** Django, Git/ GitHub, Google Collaboratory, Jupyter Notebooks, cPanel & WHM, and VestaCP

## PROFESSIONAL EXPERIENCES:

## Software Engineering Intern, Dominion Energy, Columbia, South Carolina June 2020 – Present

## Researching on how solar cells are integrated into buildings and required materials for Photo Voltic cells, comparing its efficiency with other technologies, and learning how this technology could facilitate climate change mitigation

## Recommending strategies and methodologies oh how the company could adopt this technology as its business

## Collaborating with innovation team interns to discuss, understand, and document the optimal design, location, and installation of Building Integrated Photo Voltic system

**Research Intern, Career Pathways Initiatives, Orangeburg, South Carolina** June 2019 – September 2019

* Researched on how Blockchain technology can be designed to perform covert communication embedding Steganographic or Cryptographic techniques

# Examined various encryption algorithms (RSA and AES) for big data, Blockchain architecture, and various consensus mechanisms such as Proof of Work and Proof of Stake

**Undergraduate Research Intern, School of Computer Science, Claflin University** May 2019 – August 2019

* Designed an algorithm to solve the single variable non-linear equation using Newton-Raphson, Secant, Bisecting, and Regula-Falsi method
* Analyzed set-up complexity of implementing the designed algorithm for different methods in Maple and Excel

## PERSONAL PROJECT:

## Titanic Survival Prediction (<https://www.kaggle.com/ghsagar/titanic-survival-with-feature-engineering?scriptVersionId=37167152>)

## Applied Random Forest and XGBoost machine learning algorithm to train and test data provided by Kaggle

## Visualized data and its correlation with target variable using Exploratory Data Analysis techniques

## Utilized various libraries such as Sklearn, Pandas, and Numpy for cleaning and updating data in the required format

## Performed feature engineering to discover new features which played a crucial role to increase accuracy by 0.235

## Achieved accuracy score of 0.77511 from Kaggle Submission

**Website Development,** <https://steamlogic.pythonanywhere.com/> ||  **(**<https://github.com/ghsagar/steamlogic>**)**

* Lead back-end development and assisted front-end development using Html, CSS, and JavaScript and utilized Django mapping and migration functions to design the admin site
* Connected MySQL, managed static and media files for real-time change using the admin panel
* Utilized git/GitHub for team collaboration, managed hosting, and deployed the website successfully

## LEADERSHIP:

* Vice President, National Society of Black Engineers, Local chapter, Claflin University August 2019 – Present
* Secretary, Global Student Organization, Claflin University July 2019 – Present
* Student Success Leader, Student Support Center, Claflin University May 2018 – Present

## HONORS AND AWARDS:

* Creative Project Award 2019, Carolina Cluster April 2019
* President’s Gold Medallion, School of Natural Science and Mathematics, Claflin University March 2019
* Second Runner-up, Claflin University’s Annual Business Plan Competition February 11, 2019
* Presidential Scholar, Claflin University August 2017 - Present
* Opportunity Funds Scholar, United States Education Foundation March 2016 – June 2017