

# Shaurya Tiwari

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Software engineer specializing in Data Mining, Data Science, and Machine Learning, graduating from FSU in May 2024 with a Masters Degree in Computer Science. Currently working/learning at Center of Oceanic and Atmospheric Prediction Sciences, seeking a full-time role to apply my data expertise to address complex challenges, with a strong interest in strategic analysis & tech-driven solutions.

## EDUCATION

**Florida State University, MS in Computer Science** | Florida, USA GPA: **3.8 / 4.0** May 2024  
**NMIMS University, B.Tech in Information Technology** | Mumbai, India GPA: **3.3 / 4.0** Aug 2022

Courses: Data Mining | Analytical Methods | ML | Data Structure Algorithm | Cybersecurity | Database Systems | AI

## EXPERIENCE

**C.O.A.P.S, FSU, Web Developer (Development & Maintenance)** | (Tallahassee, Florida) May 2023 - Present

- Developed and Migrated Joomla version 3 to 5 CMS websites. Enhanced user engagement by 35% through improved functionality.
- Managed projects with a tech stack including Nginx, Redis, AWS, and Node.js, serving an average of 500,000 monthly visitors. Demonstrated expertise in managing high-traffic environments efficiently.
- Utilized Postman for in-depth testing of APIs/microservices and crafted PHP APIs, leading to a 40% reduction in critical system bugs and enhancing API response times by 30%, thereby boosting overall system efficiency.

**Department of Scientific Computing, Research Assistant** | (Tallahassee, Florida) Dec'2022 - Apr'2023

- Engineered and Optimized Algorithms: Redesigned EOAS/pyutils Library algorithms to reduce the time complexity to  $O(n)$  from  $O(n^2)$ , boosting system efficiency by 90%, enhancing user processing speeds.
- Conducted Extensive Research: Analyzed over 100 years (1923-2023) of Monsoon Forecast data, focusing on variables like Salinity, Surface Temperature, and Surface-to-Air Temperature.
- Optimized ERA5 dataset manipulation with Apache Spark, leveraging RDDs and DataFrames for parallel processing. Achieved 30% faster model training, enhancing server-based workflows for quicker machine learning simulations.

**ACS Pvt. Ltd. Full Stack Software Engineering Intern** | Mumbai, India Jan'2021 - Dec'2021

- Made a collaborative effort to revolutionize strategic decision-making by seamlessly integrating SQL databases with Azure Synapse Analytics, adeptly managing vast datasets within a 5 PB data warehouse, and slashing query response times by 40%.
- Drove a 30% surge in project scalability and achieved a 10% reduction in customer churn by integrating Power BI for dynamic visualizations, leveraging Azure Synapse's scalable solutions, and establishing a real-time analytics feedback loop.

**Cart Geek, Technical Intern - Web Development** | Mumbai, India Jun'2020 - Dec'2020

- Enhanced Digital Strategy and Optimization: Boosted online client reach by 75% in 6 months via RSS feed integration for better SEO and implementing AMP, cutting page load time by 25%, resulting in higher web analytics metrics and user engagement.
- Engineered and launched 22 web and mobile applications, encompassing e-commerce and responsive designs, and automated CMS solutions for Magento, WordPress, and Joomla, enhancing operational efficiency.

## SKILLS

<b>Languages:</b>	Python, C/C++, C#, Java, Matlab, Bash, LaTeX, JavaScript, Node.js, PHP, Swift
<b>Data Analytics Tools:</b>	Microsoft Power BI, Microsoft Azure Synapse Analytics, WebFOCUS, Tableau
<b>Database Management Systems</b>	Redis, AWS, Apache Spark, PostgreSQL, Oracle, MySQL, MongoDB
<b>Machine Learning / AI Libraries:</b>	TensorFlow, Transformers, Pytorch, Keras-Image-Super-Resolution
<b>Frameworks:</b>	Django, Angular, React, Flask
<b>Web Development Tools:</b>	RSS, AMP, Nginx, Joomla, WordPress, Magneto
<b>Certifications</b>	Safety Stock Calculation using ML, Google Data Analytics, Python Programming

## PROJECTS

**Personalized Chatbot Using Hugging Face's Transformers** | Data Science Final Project, (FSU) Jan 2024 - Ongoing

- Currently Engineering a sophisticated, personalized chatbot by harnessing Hugging Face's cutting-edge NLP models and the Transformers library, to achieve human-like responsiveness to user inquiries. Utilizing Transformer library for machine learning capabilities and integrating PostgreSQL for efficient data management.

**Algorithmic Trading Strategies in Python** | Real-Life Application Project, (FSU) Oct' 2023 - Jan' 2024

- Executed three S&P 500 algorithmic trading strategies using Python, pandas, NumPy, and Matplotlib, covering Equal-weight index fund creation, Momentum, and Value investing to attempt improved portfolio performance through diverse financial theories.

**Sentiment Analysis** | Personal Project, (Portfolio) Aug' 2023 - Oct' 2023

- Implemented Sentiment-Analysis, an open-source project, enhancing my JavaScript, AI, and web dev skills. Through this project, I acquired in-depth insights into the marketplace for facial data harvested by various social media platforms, which is leveraged for targeted advertising through sentiment analysis algorithms.

**Enhanced Clique Discovery Algorithms in Uncertain Networks** | Masters Project, (FSU) Aug' 2023 - Dec' 2023

- Designed and implemented C++ algorithms for uncertain network analysis, improving speed by 25% and accuracy by 15% for social networks. Our Maximal Clique Algorithm reduced computational needs by 30% for datasets exceeding 350,000 nodes.