GOWTHAM KUMAR SOLLETI

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science *May 2024*
Cumulative GPA: 3.50 / 4.00
Coursework: Database Systems, Cloud Computing, Data Mining, Computer Security, Design and Analysis of Algorithms, Operating systems, Programming Languages (Scheme, Prolog, Haskell), Design Patterns, Computer Architecture, Software Project Management

Visvesvaraya Technological University, Belagavi, India
Bachelor of Engineering in Computer Science *July 2022*
Cumulative GPA: 3.70 / 4.00
Coursework: Data Mining and ML, Quantum Cryptography, Big Data Analytics with HP Vertica, Advanced Database Systems

TECHNICAL SKILLS

Languages: Python, Java, C++, MySQL, Solidity, Ruby, C#
DevOps & Cloud Technologies: AWS (EC2, EKS, ECS, VPC, API, CloudFormation), AZURE, GCP, Docker, Kubernetes, Terraform, CI/CD
Full stack & Web Development: HTML5, CSS3, JavaScript, jQuery, Node.js, Express.js, RestAPI's, PostgreSQL, React, Web3, Bootstrap
Operating Systems: Windows, MacOS, Linux, Ubuntu
Tools and DB: GIT, RStudio, PyTorch, Pandas, NumPy, GitHub, Tableau, Jupyter, Kafka, Matplotlib, PySpark, Flask, Django, SQL Server
Certifications: AWS associate Solutions Architect (Mar 2024), **AWS Certified Associate Developer** (Mar 2024), **Introduction Machine Learning - Stanford University** (Sept 2020)

PROFESSIONAL EXPERIENCE

Tavant Technologies - *Artificial Intelligence Intern* **|** Bangalore, India *January 2022 – July 2022*

- Collaborated with the AI research team, applying data science principles to develop a predictive customer segmentation model that increased targeted marketing effectiveness.
- Implemented data science lifecycle methodologies to clean and pre-process six OEM datasets, merging them into a cohesive dataset using NumPy and Pandas, increasing data accuracy and streamlining analysis.
- Devised and executed a machine learning algorithm, powered by a random forest model, to price service contracts for vehicles, leading to 25% revenue growth and improvement in pricing accuracy.
- Improved accuracy levels throughout the internship, reaching a peak of up to 95%.

PROJECT EXPERIENCE

Decentralized Time Capsule on AWS, *Independent* **| Binghamton, NY** May 2024 – Present

- Developed a web application enabling individuals and government bodies to create decentralized time capsules for storing digital memories, messages, and documents for future selves or family members.

E-Voting Decentralized application, *Independent* **| Binghamton, NY Link** October 2023 – May 2024

- Launched an E-Voting Decentralized Application leveraging blockchain technology for secure, transparent, and tamper-proof voting processes, ensuring integrity and anonymity.
- Exploited Amazon Managed Blockchain, AWS Lambda, S3, Cognito, KMS, and other services for secure storage, user authentication, cryptographic security, and tokenized access and smart contracts for core voting functionality.

Audio Room, *Independent* **| Binghamton, NY Link** January 2023 – May 2023

- Architected a cloud-based audio room with WebRTC, network protocols, and server architecture, empowering remote teams with superior communication.
- Enhanced user experience and engagement by deploying inventive features, resulting in a 30% rise in engagement and a 20% decline in complaints.

Cricket Data Analysis, *Independent* **| Binghamton, NY Link** September 2022 – December 2022

- Conducted comprehensive analysis of **cricket data** spanning 2008-2017, facilitating the identification top performers and team statistics.
- Orchestrated the implementation of NoSql (MongoDB) tools, leading to a 30% improvement in analysis and decision-making, empowering the organization to make data-backed decisions for enhanced operational effectiveness.

Covid Salvation, *Independent* **| Bangalore, India Link** January 2022 – June 2022

- Engineered a precise COVID-19 detection system utilizing CT scan images, employing a ResNet-50 algorithm to scrutinize lung CT scans, and seamlessly integrating into a web interface.
- Initiated and launched an advanced COVID-19 recommendation platform with interactive chatbot, secure donation payment, and news source redirection. Reached 98% CT scan analysis accuracy, consolidating data into a user-friendly resource.

PUBLICATIONS

Naveen, D., Subhashi, S. J.., Kumar, S. G., & Vishnu, S. S. (2022). COVID salvation: A theoretical model for Predicting coronavirus from chest radiology imagery. International Journal of Health Sciences,6(S5), 3836–3853. https://doi.org/10.53730/ijhs.v6nS5.9453

LEADERSHIP EXPERIENCE

- Attained a Top 10 position in the Hack BU hackathon at Binghamton University, competing against over 50 participating teams.
- Led a team of 10 members as President of the Graduate Student Organization (CS), organize events and initiatives for graduate students.
- Served as a member of the Student Advisory Committee, advocating for the Computer Science department's interests and concerns.