GOWTHAM KUMAR SOLLETI

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EDUCATION

Binghamton University, State University of New York — **Binghamton, NY**
Master of Science in Computer Science — Aug 2022 – May 2024
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
Cumulative GPA: 3.50 / 4.00

Visvesvaraya Technological University — **Belagavi, India**
Bachelor of Engineering in Computer Science — July 2018 – July 2022
Coursework: Data Mining and Machine Learning, Social Network Analysis, Quantum Cryptography, Big Data Analytics with HP Vertica, Advanced Database Systems
Cumulative GPA: 3.50 / 4.00

TECHNICAL SKILLS

Languages: Python, R, Java, C++, C, Haskell, SQL
Full stack & Web Development: Django, JavaScript, PHP, HTML 5, CSS, Bootstrap, NoSQL, Flask
Tools and DB: CMake, GIT, Hadoop MapReduce, Android Studio, RStudio, Tensor Flow, Keras, PyTorch, Pandas, NumPy, Jupyter, Spyder, Google Collab, MySQL, PostgreSQL, Atom, GitHub, MySQL Workbench, Tableau, PowerBI, Linux, data engineering, Ansible
DevOps & Cloud Technologies: Amazon Web Services (EC2, ECR, Lambda, ECS, S3, Beanstalk), GCP, Docker, Kubernetes, containerization
Operating Systems: Windows, MacOS, Linux, Ubuntu, Unix
Certifications: **AWS Associate Developer** (Feb 2024), Applied AI Specialization (Sept 2020), Introduction of IoT - Stanford University (Sept 2020), Machine Learning - Stanford University (Aug 2020)

PROFESSIONAL EXPERIENCE

Artificial Intelligence Intern – Tavant Technologies | Bangalore, India — Jan 2022 – May 2022

- Collaborated closely with the AI research team, applying data science principles to develop a predictive customer segmentation model that increased targeted marketing effectiveness by 40%.
- Implemented data science lifecycle methodologies to clean and pre-process six OEM datasets, merging into a cohesive dataset using NumPy and Pandas; accomplished a 25% increase in data accuracy and streamlined analysis process.
- Devised and executed a machine learning algorithm, powered by a random forest model, to price service contracts for vehicles, leading to a 25% revenue growth and improvement in pricing accuracy.
- Accomplished a remarkable improvement in accuracy levels throughout the internship, reaching an impressive peak of up to **95%.**

PROJECT EXPERIENCE

E-Voting Decentralized application | Binghamton, NY, USA — Oct 2023 – Present
(AWS Blockchain | HTML | CSS | AWS Lambda | AWS S3 | AWS CloudTrail | AWS KMS | AWS Cognito)

- 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.

Audio Room | Binghamton, NY, USA (Docker | DynamoDB | AWS Load Balancer | WebRtc | Fargate | ReactJS) — Jan 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 | Binghamton, USA (MongoDB Atlas| MongoDB Compass) — Sept 2022 – Dec 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.

Image Classification using Normalizing Flows | Binghamton, USA (MNIST | CIFAR 10 | Real NVP) — Sept 2022 – Dec 2022

- Applied **Real NVP for supervised classification** on two-moon, circles, and pinwheel datasets, producing requested figures.
- Incorporated Real VP for high-accuracy classification on the MIST dataset, alongside latent space interpolation for image generation across specified classes.

Covid Smart Recommendation | Bangalore, India (TensorFlow Resnet-50 | Flask | Requests | Payment Gateways) — Jan 2022 – Jun 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

ACHIEVEMENTS & CONTRIBUTIONS

- Coordinated with my team in Hack BU hackathon | **Binghamton University** — Feb 2024
- Member of Student Advisory Committee (Computer Science Department) | **Binghamton University** — Aug 2023 – Present
- President for the Graduate Student Organization (Computer Science Department) | **Binghamton University** — May 2023 – Present
- Summer Operations & Conference Assistant (Residential Department) | **Binghamton University** — May 2023–Aug 2023