

KARAN SHRIVASTAVA

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EDUCATION

Georgia Institute of Technology

Master's, Computer Science

GPA: 3.72

- Concentration: Machine Learning, Deep Learning, Mathematics, and Data Science

Georgia State University

Bachelor's, Computer Science

GPA: 3.66

- Relevant Coursework: Data Structures and Algorithm Design, iOS Development, and Distributed Storage.

WORK EXPERIENCE

Southern Company

Atlanta, GA, USA

Innovation Intern (Azure DevOps and Model Training)

Jan 2025 - Present

- Collaborated with a team on AI projects using Python, Pytorch, and Whisper to synthesize and replicate a custom trained voice.
- Prototyped a Speech-to-text app with OpenAI's Whisper Model running on GPU CUDA for seamless IoT system integration.
- Practiced Integration testing and Test Automation with JIRA and published the finished design patterns to Azure DevOps.
- Worked with XTTS-v2 for real-time voice synthesization and replication, in accordance with Software Development Life Cycle.
- Deployed AI models and websites on Azure app services with Node.JS and Python runtimes to ensure a wide range availability.
- Currently working in CoPilot Studio developing agents with the help of AI builder and Power Automate in Azure Workspace.

thecoderschool

Suwanee, GA, USA

Software Engineering Coach (FullStack Instructor)

Jul 2024 - Dec 2024

- Processed 5,000+ rows of data using Pandas to optimize model training datasets for projects in Google Teachable Machine.
- Introduced PyTorch and TensorFlow exercises, improving AI skills among 50+ students with an 80% satisfaction rate.
- Led workshops on end-to-end firmware design and development, aligning projects with industry standards and compliance.
- Configured AVM instances in our web services workshop using Linux commands running 10% more efficiently than Windows.

Nexcen Global Inc.

Cumming, GA, USA

Machine Learning Intern (NLP for speech refinement)

Jan 2023 - May 2023

- Leveraged Natural Language Processing (NLP) ML models with gTTS to enhance and refine input, boosting accuracy by 20%.
- Integrated models like BERT, Whisper, and GPT, achieving a 15% improvement in speech-to-text accuracy across voice data.
- Designed a data pipeline on cloud to process 1TB+ of input voice data monthly, utilizing Big Data for training and analysis.

AWS Cloud Intern (Hosted Sharepoint on Cloud)

Jun 2022 - Dec 2022

- Optimized cloud server efficiency by 30% through resource management and performance optimization using CloudTrail.
- Configured Autoscaling EC2 Instances, with CloudFormation, supporting 10,000+ users with on-demand resource allocation.
- Boosted server responsiveness and performance by 17% via CloudTrail and CloudWatch, cutting response times by 10%.
- Improved accessibility for 50+ employees by hosting SharePoint on AWS using Lambda for data analysis and automation.

PROJECTS AND LEADERSHIP

Students of Southern Company

Atlanta, GA, USA

President of GA Chapter

Jan 2025 - Present

- Lead events and initiatives that promote Diversity, Equity, and Inclusion (DE&I), safety, and productivity in the workplace.
- Managing an inspiring team to foster collaboration, inclusivity, and meaningful change aligned with organizational values.

Capstone Project for Data Science

Atlanta, GA, USA

Data Scientist (HS Dataset from Kaggle)

Aug 2024 - Present

- Preprocessed 662 records using Python and Perl, attaining data visualization with label encoding and 40% redundancy clean.
- Implemented data pipelines using PHP and integrated them into web-based tools for monitoring high-risk predictions.
- Optimized model training with Caffe, achieving 86% accuracy, 77% precision, and a 0.65 F1 score on prediction models.
- [Link to project](#)

MineByte (Coding for everyone)

Remote

React Developer

Jun 2024 - Present

- Built Minebyte, a platform offering free education and coding practice in 5+ languages, using React for a seamless UX/UI.
- Integrated Firestore for real-time database management and Firebase Authentication for affordable and encrypted user access.
- [Link to project](#)

SKILLS

Skills: Python, AWS, C#, JavaScript, React.js, Node, Git, Pytorch, Whisper, C/C++, Java, SQL, R, Tensorflow, NoSQL, Agile, HTML
Programmatic/Technical: Data Mining, Data Engineering, Computer Vision, Data Engineering, Natural Language Processing (NLP)