

SREE KRISHNA SURESH

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4+ years of experience | Award-winning ML solutions | \$1M+ profit impact | Predictive and Statistical modeling

EDUCATION

Northeastern University, Khoury College of Computer Science, Boston, MA

Sep 2021 - Dec 2023

Master of Science in Data Science

Relevant Coursework: Statistical Modelling, Machine Learning, Deep Learning, Data Mining, NLP, Big Data Analytics

SKILLS

Programming and Database: Python, SQL, R, Java, NoSQL

Data Science and ML: NLP, Regression, Clustering, Time Series Forecasting, Computer Vision, A/B Testing

Frameworks and Tools: PyTorch, TensorFlow, pandas, scikit-learn, Streamlit, Hugging Face, Tableau, PowerBI

Cloud and DevOps: Azure Certified, AWS (SageMaker, EC2, Airflow, S3), Docker, Jira, Jenkins, Git, Terraform, MLflow

PROFESSIONAL EXPERIENCE

People Tech Group, Redmond, WA

Oct 2024 – Present

Software Intern - AI

- Developed RAG applications with prompt engineering, used OpenAI LLM models in Azure AI Studio and deployed on Bot Service..

Abecedarian LLC, Boston, MA

Feb 2024 – Present

Data Scientist Volunteer

- Increased user engagement and application performance by 80% by developing statistical models and conducting A/B testing.
- Led data-driven decisions among stakeholders by creating Tableau dashboards for trend analysis and performing RCA using PowerBI.
- Decreased model deployment time by 50% by spearheading a cross-functional MLOps initiative, impacting 5 product teams.
- Transformed candidate shortlisting in an open-source project by building a full-stack Gen AI application with RAG-LLM.
- Analyzed user data performing causal inference, temporal/spatial clustering, and text analysis with BERT and GPT-based models.
- Refactored and wrote 400 lines of code in Python for an AI-powered job ranking application using LlamaIndex and OpenAI LLMs.

Lightforce Orthodontics, Boston, MA

Jan 2023 – July 2023

Data Science & ML Research Intern

- Automated processing and analysis of 5 TB of point cloud data monthly by designing a scalable data pipeline on AWS using Airflow.
- Reduced product design costs by \$50k annually with a novel 3D CNN PointNet solution built using PyTorch on AWS SageMaker.
- Enhanced 3D object segmentation model accuracy by 25% via feature engineering, hyperparameter tuning, and testing loss functions.
- Streamlined CI/CD workflows and deployment using Terraform and TeamCity enabling faster updates and releases.

Northeastern University, Boston, MA

Sep 2022 – Dec 2023

Graduate Teaching Assistant

- Improved grades of 40 students by mentoring projects and tutoring on topics including supervised machine learning and data mining.
- Increased student engagement by 20% through management of course logistics, assignments, and in-class activities along with faculty.

Wipro

May 2018 – Aug 2021

Data Engineer

- Saved \$200k annually and accelerated data retrieval by 25% by designing an ETL pipeline and SAP Business Objects.
- Optimized manual data processing time by 60% for 100 million records by implementing GraphQL API and optimizing SQL scripts.
- Boosted server response by 9 seconds and reduced operational costs by leading tech stack migration from PostgreSQL to Elasticsearch.
- Integrated front-end and back-end components in Nokia's optical network planning web application using Spring and Angular.
- Conducted agile sprint meetings, data architecture workshops, and mentored interns, resulting in a 30% increase in project adoption.

PROJECTS & AWARDS

Agriculture Policy Recommendation System ([link](#)) - Generated future policies by fine tuning LLMs through OpenAI API and integrating multimodal predictions from vision transformer, LSTMs, and BERT using LangChain. Won "The Novel Model Architecture" award and ranked in top 5 among 2300 teams at the Cloudera Sustainability Hackathon.

Crop Production Data Analytics and Yield Prediction Using Remote Sensing Data ([link](#)) - Built a custom ML model from scratch for time series forecasting on remote sensing data and achieved 85% accuracy over baseline ARIMA model and hosted on Google Sites. Monitored seasonal trends using Prophet.

Recognized with the Panache Award - outstanding performance and high learning ability at Wipro (2020)

Published "EEG Controlled Bionic Arm" - AI-enhanced prosthetic controlled using brain waves, IEEE (2019)