Sree Krishna Suresh

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4+ years of experience | $1M+ profit impact | 80% performance boost | Award-winning ML solutions

EXPERIENCE

The Nirvana Labs — San Francisco, CA
Data Scientist — Feb 2024 - Present
- Engineered statistical models and A/B testing, resulting in 80% increase in application performance and user engagement.
- Improved candidate match accuracy by 40% through development and implementation of RAG-LLM applications.
- Drove data-informed executive decisions by implementing 15+ Tableau dashboards and creating compelling visualizations.
- Decreased model deployment time by 50% by spearheading a cross-functional MLOps initiative, impacting 5 product teams.
- Technologies used: LlamaIndex, Elasticsearch, FastAPI, Matplotlib, Vector Databases, Hugging Face Models, Streamlit, MLflow

Lightforce Orthodontics — Boston, MA
Data Science Intern — Jan 2023 - Jul 2023
- Architected an automated data pipeline on AWS Airflow for processing and analyzing 5TB of monthly point cloud and image data.
- Enhanced 3D object segmentation model accuracy by 25% through hyper-parameter tuning and research of 7 loss functions.
- Reduced orthodontics bracket designing costs by $50,000 annually through a novel deep learning-based computer vision solution.
- Steamlined CI/CD workflows with Terraform and TeamCity, reducing deployment time by 20%.
- Technologies used: AWS(Sagemaker, S3, Airflow), Deep Learning (Pytorch, PointNet, 3D Convolution, Transformer)

Wipro Limited — Chennai, India
Data Engineer (Software Developer) — May 2018 - Aug 2021
- Accelerated data retrieval by 25% and saved $200k annually by designing and implementing a new data model and ETL pipeline.
- Optimized SQL scripts and improved query performance for 100+ million records by developing a scalable data architecture.
- Orchestrated on-premise to cloud migration, reducing operational costs by 30% and improved system response and reliability.
- Increased project efficiency by 15% by mentoring a team of 6 juniors, resulting in the highest output among 12 projects teams.
- Technologies used: Java, GraphQL, Spring Boot, Angular, Swagger, Jenkins, SQL, PostgreSQL, Git, Jira, Hadoop

EDUCATION

Master of Science in Data Science, Northeastern University — Sep 2021 - Dec 2023
Relevant Coursework: Statistical Modelling, Machine Learning, Deep Learning, Data Mining, NLP, Big Data Analytics
Bachelor of Technology in Mechanical Engineering, SASTRA University — Jun 2014 - May 2018

PROJECTS & RESEARCH

Agriculture Policy Recommendation System (Link) — Nov 2023 - Mar 2024
- Won "The Novel Model Architecture" award and ranked in top 5 among 2300 teams at the Cloudera Sustainability Hackathon.
- Generated future agriculture policy by fine-tuning LLMs through OpenAI API and integrated multi-modal predictions from Vision Transformers, LSTMs, and BERT using LangChain.

Crop Production Analysis and Yield Prediction (Link) — Sep 2022 - Dec 2022
- Developed a custom ML model (0.3 RMSE) from scratch for time series forecasting of crop yields using remote sensing data.
- Conducted Exploratory data analysis (EDA) and created interactive visualizations with Tableau and Python for 4M+ data points.
- Improved prediction accuracy by 15% over baseline models by implementing and benchmarking ARIMA, and Prophet algorithms.

ACHIEVEMENTS

- Runner up at Spotify's music genre classification Hackathon (ensemble model of XGBoost, LightGBM, CatBoost) (2023).
- Recognized with the Panache Award for outstanding performance and high learning ability at Wipro (2020).
- Published "EEG Controlled Bionic Arm" an AI-enhanced prosthetic controlled using brain waves, IEEE (2019) (Link).

SKILLS

Programming & Database : Python, R, Java, JavaScript, C++, HTML5, CSS, SQL, NoSQL
Data Science & ML : PyTorch, TensorFlow, Pandas, Scikit-Learn, Matplotlib, NLP, Regression, Clustering
Developer Tools & Cloud : AWS (Airflow, EC2), PySpark, Hive, Docker, Jira, Jenkins, Git, Power BI, Jupyter Notebook