DIVYA SRINIVASAN

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Education	
New York University, <i>New York</i> Master of Science in Computer Science	Expected May 2026
Coursework: Design and Analysis of Algorithms, Machine	ne Learning, Computational Cognitive Modeling
University of Catania, <i>Italy -</i> Thesis Work	May 2024
Shiv Nadar University (SSN), <i>India</i> Bachelor of Engineering in Computer Science (CGPA	A: 3.34/4) Graduated 2024
Relevant Coursework: Probability and Statistics, Operating	ng Systems, Compilers, Artificial Intelligence, Data Science
Technical Skills/ Certifications	
Programming Languages :	C, C++, Python, JAVA, SQL, JavaScript, Linux
Libraries & Frameworks :	MATLAB, TensorFlow, NumPy, Keras, LangChain, SciPy
Internships	
 Developed an OCR application for extracting text fr PyMuPDF, Tiktoken, and LangChain Integrated OpenAI GPT-3.0 for enhanced search and Passageth Experience/ Projects 	Aug 2023 – Oct 2023 from multi-page resumes with varied fonts and complex layouts, using d retrieval, improving accuracy by 25% and reducing processing time by 30%
Bachelor's Thesis	Jan 2023 – May 2023
 Vehicular Driving Style Profiling Using Deep Learning Analyzed deep learning autoencoders, including Lot to learn temporal dependencies and unique features Constructed benchmark models to create individual assessment of similarity and irregularity between dit Data was collected using OBD sensors from 10 user time-stamped data samples. The Convolutional Auto LSTM Auto-encoder, which recorded a loss of 0.213 	Methodologies, SSN (Chennai) and University of Catania (Spain) ng Short-Term Memory (LSTM) and Convolutional Neural Networks (CNN), of user behavior driving profiles, representing each driver's unique driving style, enabling fferent users traversing the same path using the same vehicle vehicles driven in the Catania-Syracuse highway, each with 8,000-10,000 o-encoder achieved an average reconstruction loss of 0.197 , outperforming the 3
Research Project, CLEF initiative labs	Aug 2022 – Nov 2022
Medical Dialogue Summarization using Linear Support	Vector Systems, SSN (Chennai)

- Utilized a Linear Support Vector Classification (SVC) algorithm with TF-IDF features to perform text classification on 1200
- doctor-patient conversation snippets. The model achieved a training accuracy of 0.82 with a validation accuracy of 0.70
 Implemented various preprocessing techniques and random oversampling to address class imbalance, and analyzed alternative models including CART and CNN.

Project Intern

Data Analysis and Deep Learning, NUS (Singapore)

• Applied Convolutional Neural Networks (CNN) to predict earthquake-prone zones. Created a ground motion identification program to detect near-fault non-pulse ground motions using seismic data from 500 events

July 2023 – Aug 2023

• Demonstrated improvements by reducing the number of outliers by 5% and the standard deviation of residuals by 11%

Publications

Dhanya Krishnan, **Divya Srinivasan**, Balasubramanian V and Nagaradjane Prabagarane (Sri Sivasubramaniya Nadar College of Engineering, India); Joannes Sam Mertens (University of Catania & CNIT-National Inter-University Consortium for Telecommunications, Italy); Salvatore D. Cafiso, Laura Galluccio, Giacomo Morabito and Giuseppina Pappalardo (University of Catania, Italy), (2024), 'Driving Style Profiling using deep auto-encoders for Safety applications in Urban and Highway Scenarios', 2024 IEEE International Symposium on Measurements & Networking (M&N) http://dx.doi.org/10.1109/MN60932.2024.10615387

Dhanya Krishnan, **Divya Srinivasan** and Kavitha Srinivasan. 'SSNdhanyadivyakavitha at MEDIQA-Sum 2023: Medical Dialogue Summarization using Linear Support Vector Classification Technique'. Working Notes of the Conference and Labs of the Evaluation Forum (CLEF 2023), Thessaloniki, Greece, September 18th to 21st, 2023. Volume-3497 paper 127 https://ceur-ws.org/Vol-3497/paper-127.pdf