Phani Siginamsetty

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CAREER OBJECTIVE

To associate myself with a professionally driven esteemed organization and constantly develop and utilize my skills to add value to the organization, staying ahead of the curve.

EDUCATION

2021 - present	PhD (Computer Science & Engineering) at **SRM-AP University**	(SGPA: 9.25/10.0)
2018 - 2020	M.Tech (Computer Science & Engineering) at **KL University**	(CGPA: 8.5/10.0)
2014 - 2018	B.Tech (Computer Science & Engineering) at **JNTUK**	(81.0%)
2012 - 2014	INTERMEDIATE (MPC)	(91.7%)
2011 - 2012	SSC	(GPA: 9.3/10.0)

WORK EXPERIENCE

Research Assistant (Volvo Group)   June 2024 - Present
- Working on Edge LLM.
- Deployed deep learning model in the VCM.

Assistant Professor (Dhanekula Engineering College)   Oct 2020 - Aug 2021
- Handled course work and supported the training & placements cell.
- Conducted coding sessions.

Trainee Engineer- (ML) Research Team (Tychee Innovations)   Aug 2020 - Jul 2021
- Created data visualization graphics, translating complex datasets into comprehensive visual representations.
- Employed a variety of machine learning approaches to predict patient outcomes using diverse healthcare datasets.
- Developed a Hand Shredder Machine detection model using Object Detection Framework.

PROJECTS

Multimodal Summarization Demo
- Developed a multimodal summarization engine to process diverse inputs and generate summaries. Utilized transformers and CNNs for feature extraction.
- Stack: NLP, Deep Learning.

Face Detection Attendance System Code
- Automated attendance system using facial recognition, storing embeddings in MongoDB.
- Stack: Deep Learning, MTCNN, ArcFace.

Covid Chatbot Demo
- Telegram-integrated bot providing COVID-19 updates and analysis.
- Stack: NLP, Deep Learning.

Hand Shredder Detection Code
- Safety system using camera-based hand detection to stop machinery.
- Stack: Deep Learning, OpenCV.

Web Scraping with Python Code
– Automated data collection for various tasks, including price alerts and image scraping.
– Stack: BeautifulSoup, Selenium.

PUBLICATIONS

Phani, Siginamsetty and V. Krishna Reddy (2020). "Machine Learning Classifiers and Along with TPOT Classifier (Automl) to Predict the Readmission Patterns of Diabetic Patients". In: *International Journal of Recent Technology and Engineering*.

Phani, Siginamsetty and Ashu A (2021). "Abstractive Text Summarization with Fine-Tuned Transformer". In: *Conference on Machine Vision Augmented Intelligence*.

Phani, Siginamsetty and Ashu Abdul (2023). "Vision-based Facial Detection and Recognition for Attendance System Using Reinforcement Learning". In: *11th International Conference on Frontiers of Intelligent Computing: Theory and Applications, April 11 - 12, 2023, Cardiff Metropolitan University, Cardiff, United Kingdom*.

Abdul Ashu, Siginamsetty Phani (2024). "Improving Preliminary Clinical Diagnosis Accuracy through Knowledge Filtering Techniques in Consultation Dialogues". In: *Computer Methods and Programs in Biomedicine* 246.

Phani Siginamsetty, Ashu Abdul (2024). "MMSFT: Multilingual Multimodal Summarization by Fine-tuning Transformers". In: *IEEE Access*.

PATENTS

Siginamsetty, Phani (2022). "A System and Method for Performing Multilingual Multimodal Summarization for Multimodal Input". In: *Indian Patent*.

Phani, Siginamsetty (2023). "A System and Method for Multimodal Multilingual Input Summarization Using Quantum Motivated Processors". In: *Indian Patent*.

Siginamsetty, Phani (2023). "A System and a Method for Prediction of the Strength of Concrete". In: *Indian Patent*.

Kumar, Phani (2024). "A System and a Method for Healthcare Data Processing and Decision Support". In: *Indian Patent*.

Kumar, Siginamsetty Phani (2024). "A System and a Method for Multilingual Fake News Detection in Multimodal Information". In: *Indian Patent*.

Phani, S (2024). "A System and a Method for Personalized E-Content Generation Based on Student Performance in Education". In: *Indian Patent*.

Phani, Siginamsetty (2024). "A System and a Method for Generating Trading Coupons". In: *Indian Patent*.

Siginamsetty, Phani (2024). "A System and a Method for Deriving Multilingual Meeting Minutes". In: *Indian Patent*.

Siginamsetty, Phani Kumar (2024). "A Healthcare Summarization System and a Method Thereof". In: *Indian Patent*.

SKILLS

Machine Learning, Deep Learning, NLP, Python, Web Scraping, Data Science, OpenCV
Pandas, Data Analysis & Visualization, Flask, REST APIs, Web scraping & task automation