



# Kamal Sundar SK

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## EXECUTIVE SUMMARY

Computer Science Engineer with hands-on experience in software development. Skilled in building scalable software solutions, with expertise in integrating AI-driven components to enhance performance. Improved system reliability by up to 30%, and designed data-driven pipelines and algorithmic systems achieving 10-20% efficiency gains and measurable accuracy boosts in ML modules.


## PROFESSIONAL EXPERIENCE

- National Small Industries Corporation(NSIC), intern** 2024 | Chennai, India
- Designed and optimized end-to-end data pipelines for data collection, cleansing, and preprocessing, utilizing Python and Pandas to boost data integrity by 25% and increase processing throughput by 10%.
  - Enhanced and fine-tuned deep learning model architectures, driving a 16% uplift in classification accuracy through targeted hyperparameter optimization and architectural refinements.

## PROJECTS

- Cometx (Fake news detection), nexus labs** 
- Engineered a misinformation detection platform integrating backend services with modular ML components for real-time analysis
  - Applied GNN for network patterns and ViT for media verification, achieving 92% accuracy and improving credibility assessments by 70% with HEMMR
- ClaimwiseAI, Bajaj Finserv hackrx** 
- Developed an LLM-based semantic search system, improving query accuracy by 35% and reducing response time by 40%
  - Designed a dual-LLM architecture with embeddings for query matching and response generation, boosting relevant answer retrieval by 30%

## PUBLICATIONS

- Hybrid Neural Network Approach Using LSTM and XGBoost for Network Intrusion Detection and Classification**  Aug 2025
- Published research achieving 98% accuracy and improving detection rates by 50% with a hybrid LSTM + XGBoost model

## SKILLS


**Programming** – Python, Java, C, C++  
**Frameworks and libraries** – TensorFlow, PyTorch, Scikit-learn, FastAPI  
**tools and technologies** – Docker, Docker Compose, Apache Kafka, Apache Flink, Redis, Git  
**Database:** – MongoDB, MySQL

## EDUCATION

**SRM Institute of Science and Technology, Vadapalani, B.Tech – Computer Science and Business Systems**  
present | Chennai, India  
GPA: 9.20 | Chennai, India | Present

**St. John's English School & Junior College, Besant Nagar, High School Diploma (Class 12)**  
Chennai, India  
Score:90.2%

## CERTIFICATES

**Generative AI Virtual Internship**   
Focused on Generative AI and related concepts.