

R . Vinay Kumar

+91-9346943494 | vinaykumarrangoori33@gmail.com | [linkedin.com/in/vinay-kumar-rangoori](https://www.linkedin.com/in/vinay-kumar-rangoori) | github.com/Rangoori-Vinay

TECHNICAL SKILLS

Languages: C, Python, SQL, R, Scala, C++, Java, Dart

Frameworks: TensorFlow, Apache Hadoop, Apache Spark, Flutter, Scikit-learn

Developer Tools: Git, Jupyter Notebook, Visual Studio Code, Eclipse

Libraries: Numpy, Pandas, Matplotlib, Seaborn, Sci-Py, Scrappy

DataBases & CloudPlatforms : Firebase , MySQL

Skills: Data Structures and Algorithms, Machine Learning, Deep Learning, Artificial Intelligence, Natural Language Processing, GitHub, Ubuntu, Spreadsheet

PUBLICATIONS

DravidianLangTech-2024: Hate Speech Detection in Telugu-English Code-Mixed Text

Breaking Language Barriers; Hate Speech Detection in Telugu-English Code-Mixed Text

Oct 23 - Mar 24

- [Link to Publication](#)
- Authors: Chava Srinivasa Sai, Rangoori Vinay Kumar, Sunil Saumya, and Shankar Biradar
- Sai, Chava, Rangoori Kumar, Sunil Saumya, and Shankar Biradar. "IITDWD_SVC@ DravidianLangTech-2024: Breaking Language Barriers; Hate Speech Detection in Telugu-English Code-Mixed Text." In Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages, pp. 119-123. 2024.

PROJECTS

RAG-assisted Explainable Hate Speech Detection

Jan 24 – Jul 24

- *Generative AI, Semantic Search, Python*
- Developed an advanced hate speech detection model using Generative AI and semantic search techniques.
- Implemented preprocessing and semantic search algorithms for accurate and explainable predictions.

Hate Speech Detection in Telugu-English Code-Mixed Text

Oct 23 - Mar 24

- *Xlm-Roberta, BERT, Hate-BERT*
- Led a team in detecting hate speech in code-mixed text, achieving a 14th rank in a competitive task.
- Utilized advanced models for effective detection and improved F1 score.

Investigating the Role of Fake Narratives in Spreading Hateful Reactions

Aug 23 - Dec 23

- *Multi-task Model, Clustering Algorithms*
- Developed a multi-task model for detecting hate speech and fake news.
- Enhanced model efficiency and tackled online hate speech and fake news challenges.

Translators Comparison: Google Translator vs. AI4 Bharat Translator

Aug 23 - Dec 23

- *IndicTrans2, Comparative Analysis*
- Compared Google Translator with AI4 Bharat's IndicTrans2 for Indian languages.
- Found IndicTrans2 to be more accurate in translation.

Chat Buddy: Connecting Conversations and Creating Bonds

Aug 23 - Dec 23

- *Flutter, Firebase*
- Developed an app for secure student-professor interactions with voice and video call features.
- Implemented cloud-based data management for seamless communication.

Greenify: Sustainable Weather and Carbon Tracking

Jan 23 - May 23

- *Flutter, Firebase*
- Created an app providing weather forecasts and tracking carbon emissions.

- Promoted sustainability with detailed carbon footprint insights.

Money Max: Effortless Finance Management

Jan 23 - May 23

- *Flutter*
- Designed a financial management app for expense tracking and balance management.
- Enhanced user experience with intuitive design features.

EDUCATION

Indian Institute of Information Technology Dharwad

Bachelor of Technology in Data Science & Artificial Intelligence

Dharwad , Karnataka

December 2021 - May 2025

Narayana Junior College

Higher Education

Visakhapatnam , Andhra Pradesh

March 2019 - May 2021