



# DR. MADHAN KARKY

PhD · Lyricist · Writer · Language Technologist · Educator

Computer Science · Tamil Language Computing · Tamil Education

**Dr. Madhan Karky** completed his PhD in Computer Science at the University of Queensland, Australia, where his research on wireless sensor networks earned him a full scholarship. He taught at Anna University's College of Engineering Guindy from 2009 to 2013 before dedicating himself to language research, Tamil cinema, and education. Today he leads two organisations, KaReFo and KTA, working at the intersection of technology and Tamil language.

**PhD**

University of Queensland  
Australia

**1000+**

Songs · 400+ Films

**7,000+**

Students in Tamil Schools

**35+**

Countries reached by KTA Payil

## EDUCATION & RESEARCH

**B.E. Computer Science**, College of Engineering Guindy, Anna University (2001)

**M.Sc. Information Technology**, University of Queensland, Australia · *High Distinction (2004)*

**PhD Computer Science**, University of Queensland, Australia (2007) · Wireless Sensor Networks

Served as **Assistant Professor**, Dept. of Computer Science, Anna University (2009–2013). Published research in Tamil Computing, Natural Language Processing, and sensor systems.

His research area, **Lyric Engineering**, applies computational linguistics and mathematical modelling to the structure of Tamil poetry.

## LANGUAGE & EDUCATION

**Karky Research Foundation (KaReFo)**, founded in 2013, builds free Tamil language tools used worldwide:

*Chol* (bilingual dictionary · 350 million word forms) · *Emoni* (rhyme finder for writers) · *Paeri* (name generator) · *Paadal* (lyric analytics portal)

**Karky Tamil Academy (KTA)**, co-founded with Nandini Karky, brings 13+ years of KaReFo research into classrooms.

*Thambaa Tamil Labs* is active in 25+ schools across Tamil Nadu with 7,000+ learners. The *Payil* curriculum and online courses reach students in 35+ countries, from school children to diaspora adults reconnecting with their language.

## FILM & CREATIVE WORK

Karky has written **1000+ songs in 400+ Tamil films**, beginning with *Irumbile Oar Irudhayam* for *Enthiran* (A. R. Rahman, 2010).

He wrote dialogues for *Endhiran*, *Baahubali 1 & 2*, *RRR*, *Pushpa*, and *Sita Ramam*. For *Baahubali*, Karky invented **Kilikki**, a complete language with 3500 words, its own script and grammar.

He wrote the **story, screenplay and dialogues** for *Son of Thanjai*, an action-adventure video game for **Xbox and PlayStation** rooted in Chola history, bringing Tamil storytelling into global gaming.