

# PROFILE

## **DR. ANANDKUMAR PRAKASAM**

Founder and Director,

- **ROOT - IT Learning Centre and Research Consultancy**
- **App-Angadi - A Mobile Design and Development Studio**
- **ExamSign – Online and Offline Test Evaluation Platform**

No.8, Second Floor & Third Floor, BKG Building, Madurai Road,  
Trichy-620008

**Linguistic Proficiency : English, Tamil, French**

### **EDUCATION**

<b>Ph.D</b>	<b>National Institute of Technology, Trichy</b>	<b>9.5</b>
<b>MCA (Class Topper)</b>	<b>National Institute of Technology, Trichy</b>	<b>9.17 (Out of 10)</b>
<b>B.Sc. (Physics – Gold Medalist)</b>	St. Joseph's College, Bharathidasan University, Trichy	88.99%
Class XII (HSC)	Sri Ramakrishna Vidhyalaya Mat.Hr. Sec. School, Villupuram, Tamil Nadu	89.08%
Class X (AISLC)	Railway Mixed High School Villupuram, Tamil Nadu	82.50%

### **SOFTWARE SKILLSET**

- **Programming Languages** : C, C++, C#, Java, Python, MapReduce, Hive QL, PIG Latin, CYPHER, Neo4J, PySpark, CUDA C
- **Markup Languages** : HTML 5.0, XML, XHTML, CSS 3.0, XAML
- **Packages** : Adobe Dreamweaver CS5.5, Illustrator CS3, Photoshop CS3, Microsoft Expression Studio
- **Scripting Languages** : JavaScript, PowerShell, BASH, PHP 5.0, jQuery
- **Operating System** : Unix, Linux (RHEL 5.0), Ubuntu, Windows2000/2003/XP/VISTA (MCSA 2003), Windows 10
- **RDBMS** : MS-SQL Server 2017, Oracle 10g, MySQL 5.0
- **IDE and Text Editors** : Visual Studio 2019, VS Code, Komodo, Eclipse, NetBeans, Sublime Text 3, IntelliJ Idea, IPython Notebook
- **.NET Technology** : .Net Framework (3.5, 5.0), C#.Net, ASP.Net, MVC, ADO.Net, LINQ, XAML, WPF, WCF, Web Services, MVVM, XAMARIN, UWP.

- Unit Testing Frameworks : MS-Test, JUnit Test, PyTest, NUnit
- Machine Learning : ENCOG 3.0, WEKA, SciKit Learn, Tensorflow, Keras, AutoML, MLBox
- NoSQL Databases : Neo4j, Couch DB, Mongo DB, HBase, Cassandra
- Data Visualization : Tableau 10.4, D3.js, Excel 2019

## AREAS OF INTEREST

- Object Oriented Design Patterns
- Code Optimization and Refactoring
- SQL Query Plan Analysis and Query Optimization
- Massively Parallel Programming and Machine Learning
- Data Analytics and Interactive Data Visualization

## EXPERIENCE

- **Trained and placed more than 5000+ Students since 2009**
- **15 years' experience in Teaching and Programming**
- **12 years' experience as a Research Consultant**
- **9 years' experience as a Corporate Trainer**
- Provided **Corporate Training** for employees of **Oracle Financial Services Software, Chennai on Advanced Java, OOAD, UML and Design Patterns**
- Provided **Corporate Training** for **Executives of BHEL Trichy** on Data Analytics
- Provided **Corporate Training** on Big Data Analytics and Data Visualization for **PsiberTech Solutions, Singapore and Chennai.**
- Established the **Massively Parallel Programming Laboratory (Sponsored by NVIDIA)** and **Big Data Analytics Laboratory @ NIT Trichy.**
- Conducted more than **20 workshops on Parallel Programming using CUDA C @ NIT, Trichy** as part of NVIDIA CUDA Teaching Center-Sponsored by NVIDIA, India, including a Three Days workshop on CUDA C in **PRAGYAN-2014, 2015 and 2016**
- Conducted a Two Days Workshop on **Data Science Research @ NIT Trichy**
- Conducted a Five Days Workshop on **Big Data Analytics @ NIT, Trichy**
- Conducted a Three Days Workshop on **Data Science Research Sponsored by DST @ NIT Trichy**
- Conducted Oracle RDBMS Training for **BHEL Employees** as part of a Team from NITT
- Conducted C#.Net Training for **BHEL Employees** as part of a Team from NITT
- Conducted a three-day workshop on **Data Analytics and Machine Learning @ BHEL Trichy**
- Delivered more than **300 invited lectures on Data Science Research and Big Data Analytics** across India.
- Conducted several **Faculty Development Programs (FDP)** on Big Data Analytics, Data Science Research and Programming.

- **Industry Member: Board of Studies for M.Sc. Data Science @ St. Joseph's College, Trichy**

## RESEARCH EXPERIENCE AND PUBLICATIONS

**My Research Publications:** [https://www.researchgate.net/profile/Anandkumar\\_Prakasam](https://www.researchgate.net/profile/Anandkumar_Prakasam)

**Google Scholar Page:** <https://scholar.google.com/citations?user=FTCQeYwAAAAJ&hl=en&oi=sra>

### Industrial Research:

We have successfully completed more than **15 consultancy projects** in the field of **Data Science and Big Data Analytics**. We have also worked on Proof of Concept projects in the areas of **Data Driven User Experience Design, Customer Relationship Management and Student Performance Analysis**.

### Academic Research:

Through **Root Research Consultancy**, we have successfully provided guidance to more than **110+ Ph.D Candidates** in the **past 12 years**, accounting for more than **500+ publications** in **International Journals and Conferences**.

We have also provided guidance to more than **150 M.Phil and M.Tech Scholars** during the **past 12 years**, accounting for more than **150+ publications** in **National Conferences**.

## CERTIFICATIONS

- Completed **HCL Certified Network Professional (HCNP)** with **78%** (It includes **A+ Hardware, N+ Networking, Cisco Certified Network Associate (CCNA), Microsoft Certified System Administrator (MCSA)** and **Red Hat Certified Engineer (RHCE)**) during **May 2009**.
- Completed **Diploma in Computer Programming (DCP)** with **A Grade** from **TREC-STEP, Trichy** during **July 2005**.
- Completed **LEVEL 1 (Diploma) Certificate in French Language** from **Alliance Française de Madras** with **80 - 90% Marks** during **May 2005**.

## ACADEMIC ACHIEVEMENTS

- Cleared **GATE 2013** in the **Computer Science and Information Technology** stream.
- Awarded **Certificate of Merit** and **Cash Award** for standing **First** in Class in **Post Graduation (MCA)** at **National Institute of Technology, Trichy** during **2009-2010**.
- Awarded **Certificate of Merit** and **Cash Award** for standing **Second** in Class in **Post Graduation (MCA)** at **National Institute of Technology, Trichy** during **2008-2009**.
- Awarded **Certificate of Merit** and **Cash Award** for Scoring **Centum** in **TNPCEE-2003**.
- **Scored Centum** in **Physics (+2/HSC)** in **2004**.
- Secured **Overall First Rank** in **B.Sc. Physics** during **2004-2007**.
- Received **Best Outstanding Performance Medal** (College **Gold Medalist** for the **Batch 2004-2007**).

- Awarded **Five Certificates of Merit and Medals** for Standing **First** in **Physics (Major)** in Under Graduation (2004-2007).
- Awarded **Two Certificates of Merit and Medals** for Standing **First** in **Chemistry** in Under Graduation.
- Awarded **Two Certificates of Merit and Medals** for Standing **First** in **General English** in Under Graduation.
- Awarded **Two Certificates of Merit and Medals** for standing **First** in **French** in Under Graduation.
- Awarded **Two Cash Awards** for **Best Performance** in **Physics (Major)** in Under Graduation (2004-2007).
- Awarded **Certificate of Merit and Medal** for Standing **First** in **Indian History for Competitive Examinations** in Under Graduation.
- Awarded **Certificate of Merit and Medal** for Standing **First** in **Everyday Chemistry** in Under Graduation.

## EXTRA CURRICULAR ACTIVITIES

- **Member-** Bharat Scout and Guides.
- **Secretary- French Association** of St.Joseph's College, Trichy (2005-07)
- **Secretary- Youth Red Cross** Unit of St.Joseph's College, Trichy (2005-07)
- **Group Leader-** Education Group, SHEPHERD Extension activity from 2004-07.
- Attended a four-day **Interstate Youth Red Cross Training cum Study Camp** from 27-12-04 to 31-12-04 in **Annamalai University, TamilNadu** during **Tsunami Period**.
- Organized **Two Blood Donation Camps** at **St.Joseph's College**.
- Received a **Special Certificate of Merit** for my contributions to **Youth Red Cross Unit**.
- **Member** - Association for Computing Machinery, Student Chapter, NITT.
- **Member** - Event Execution Committee, Version'08 National Level Tech symposium, NITT.
- **Class Representative** - MCA Batch of 2010, NIT, Trichy.