

# PROFILE

**Dr. ANANDKUMAR PRAKASAM**

Founder and Director,

- **ROOT- IT Learning Centre and Research Consultancy**
- **App-Angadi - A Mobile Design and Development Studio**
- **ExamSign - A Data Analytics Startup working on MCQ Analysis**

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

## **EDUCATION**

<b>Ph.D</b>	<b>National Institute of Technology, Trichy</b>	<b>9.5 (out of 10)</b>
<b>MCA (CGPA)</b>	<b>National Institute of Technology, Trichy</b>	<b>9.17 (Out of 10)</b>
B.Sc (Physics)	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#, Java 7, Hadoop, MapReduce, Hive QL, PIG Latin, CYPHER, Neo4J, Python, 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, SH, BASH, PHP 5.0, Ruby on Rails (MVC), jQuery
- Operating System : Unix, Linux(RHEL 5.0), Ubuntu, Windows2000/2003/XP/VISTA (MCSA 2003), Windows 8
- RDBMS : MS-SQL Server 2017, Oracle 10g, MySQL 5.0
- IDE and Text Editors : Visual Studio 2015, Komodo IDE, Eclipse, NetBeans, Sublime Text 3, VS Code 1.3

- .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
- Machine Learning : ENCOG 3.0, WEKA, Excel 2016, IPython Notebook
- NoSQL Databases : Neo4j, Couch DB, Mongo DB, HBase, Cassandra
- Data Visualization : Tableau 10.4, D3.js

## 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

## 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**.
- 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.

## EXPERIENCE

- **14 years' experience in Teaching and Programming**
- **Eight years' experience as a Research Consultant**
- **Six years' experience as a Corporate Trainer**
- **Provided Corporate Training for Executives of BHEL Trichy on Data Analytics**
- **Provided Corporate Training for employees of Oracle Financial Services Software, Chennai on Advanced Java, OOAD, UML and Design Patterns**
- **Provided Corporate Training on Big Data Analytics and Data Visualization for PsiberTech Solutions, Singapore and Chennai.**
- **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**
- **Delivered more than 250 invited lectures on Data Science Research and Big Data Analytics across India.**

## RESEARCH EXPERIENCE AND PUBLICATIONS

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

### **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 **100 Ph.D Candidates** in the **past 7 years**, accounting for more than **400 publications** in reputed **International Journals and Conferences**. We have the credit of writing more than **72 Ph.D thesis documents** in the **past 7 years**. We also act as **reviewers** for several international journals, including those from **IGI Global, Inderscience, Elsevier and Springer**.

We have also provided guidance to more than **100 M.Phil and M.Tech Scholars** during the **past 7 years**, accounting for more than **150 publications** in **National Conferences**.