**VARAHASAMY.R**

**Assistant Professor and Trainner**

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10+ years of experience in teaching with specialization in database concept with SQL and PL/SQL, Software engineering and Object Oriented Analysis Design concepts with CASE Tools, Operating System Concepts with exposure to Shell programming and POSIX based implementation of Operating system concepts in lab courses, Business statistics related areas with developing programs using R, Data Mining, Machine learning, Deep Learning concepts and Artificial intelligence.

Highly experienced ERP/Database Administrator with over 10 years of expertise in implementing, configuring, and maintaining complex ERP systems, with a strong background in database administration. Proven track record of improving system efficiency, reducing costs, and enhancing user experience. Skilled in data analysis, reporting, and process optimization.

**Technical Skills:**

Programming Languages: C, C++, JAVA, Python and R

Web Technologies : HTML and XML

**Platforms**: Windows 95/98/NT/2000/XP/Vista, UNIX, Linux 5/6.

**Methodologies**: Agile, Rational Unified Process (RUP), UML

**Database** :  Oracle 8i, 9i, 10g, IIS 6.0/7.0, SQL Server and Tomcat

**Frond End Tools**:  Visual Basic

**Case Tools:** Rational Administrator, Rational Requisite Pro, Rational Rose, Rational Test Manager, Rational Robot and Rational Site Check.

**Query Language** : Structured Query Language(SQL) – Extensive Knowledge in Data Definition Language(DDL) with Creation of tables with constraints and alter command application of modification of structures with constraints – DML - Join – Outer Join (Traditional Join and Join Methods)- Nested Query – Correlated and Uncorrelated Nested query with its variants- Built in functions –Character- Date – Numerical related functions ---Data Control Language(DCL)- Commit- Rollback with save points-Query By Example(QBE)

**PL/SQL** – Creating anonymous block of code- Record Manipulation- Index-By, Varray – Control structures- Stored procedure- Function and Packages- Triggers.

**Database Concepts:** ER Model – Entity Relationship – Index- Deadlock- Transaction Management-ACID property- Conflict Seriliazable – ID generation – Normalization process (1NF, 2NF, 3NF and BCNF)

**Software Engineering**: SDLC- Waterfall – Agile- Hybrid process- Capability Maturity Models- Cost Estimation – FP and LOC- COCOMO- Testing – Testing Strategy- Testing Methods -White Box and Black Box testing.

**Data Structures and algorithms**: Stack – Queue – Linked List- Search and sort techniques- Tree based data structures – Hashing.

**Object oriented analysis and Design with UML** – Object and Class concepts with its relations- State modelling- Functional modelling- application of objects concepts using UML notations with exposure to case tools lab such as rational tools.

**Operating system concepts**- System calls- Processor scheduling- Memory management – File and device management and its implementation in lab using Unix/Linux shell programs and POSIX based C language implementation of OS concepts.

Certifications from NPTEL Courses on Deep Learning related areas

i) Practical Machine Learning with Tensorflow

ii) Python for Data Science

iii) Deep Learning – Part1

iv) Deep Learning for Visual Computing

Trainer Experience :

**Freelance Trainer (2021-Present)**

* Delivered training sessions on Oracle and SQL to individuals and corporate clients, including Oracle Database Administration, Oracle Development, and SQL Fundamentals
* Designed and developed customized training programs to meet the specific needs of clients, resulting in a 95% client satisfaction rate
* Conducted needs assessments, created lesson plans, and developed training materials, including presentations, manuals, and exercises
* Utilized adult learning principles, such as hands-on exercises and real-world examples, to engage trainees and promote learning
* Provided one-on-one coaching and mentoring to trainees, resulting in a 25% increase in skills and knowledge
* Taught Oracle Database Administration, Oracle Development, and SQL Fundamentals to students of varying skill levels
* Developed and maintained training materials, including course outlines, lesson plans, and exercises
* Collaborated with other trainers to develop and implement new training programs, resulting in a 30% increase in course offerings
* Conducted training sessions in a classroom setting, as well as online, using virtual training tools

**Professional Experience:**

**ERP Administrator, A leading Deemed University - Tanjore (2018-2021)**

* Manage and maintain ERP system (SAP/Oracle/MS Dynamics) for a global organization with 500+ users
* Configure and customize ERP modules, including finance, logistics, and human resources
* Develop and implement data migration strategies for system upgrades and integrations
* Collaborate with cross-functional teams to identify and resolve system issues, improving overall system uptime by 25%
* Design and develop custom reports and dashboards using ERP reporting tools (e.g., SAP Crystal Reports, Oracle Reports)
* Provide training and support to end-users, resulting in a 30% increase in user adoption

**Senior Database Administrator, Engineering Colleage Affiliated under Madurai University (2012-2015)**

* Managed and maintained large-scale databases (Oracle, SQL Server, MySQL) for a fast-paced e-commerce environment
* Designed and implemented database architectures, ensuring high availability, scalability, and performance
* Developed and executed database backup and recovery strategies, ensuring 99.99% uptime
* Collaborated with development teams to optimize database performance, resulting in a 40% reduction in query execution time
* Implemented database security measures, ensuring compliance with industry standards and regulations

**Skills:**

* Oracle Database Administration (11g, 12c)
* Oracle Development (PL/SQL, Forms, Reports)
* SQL Fundamentals (Oracle, SQL Server, MySQL)
* Adult learning principles and instructional design
* Training delivery and facilitation

**Summary** :

1. **Oracle skills:** Highlly expertise in Oracle Database Administration, Oracle Development, and Oracle Cloud Infrastructure.
2. **SQL skills:** Great knowledge of SQL Fundamentals, SQL Tuning, and SQL Programming (PL/SQL, T-SQL, etc.).
3. **Database management:** Vast experience with database design, implementation, and management, including data modeling, normalization, and data warehousing.
4. **Training and facilitation:** Proficient and talented to design and deliver engaging training sessions, both in-person and online, using various training tools and platforms.
5. **Communication and interpersonal skills:**  Strong communication, presentation, and interpersonal skills, which are essential for effective training delivery and client interaction.
6. **Technical writing:** Ability to create high-quality training materials, including course outlines, lesson plans, and user manuals.
7. **Adult learning principles:** Strong understanding of adult learning principles, instructional design, and training delivery methodologies.