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SOFTWARE ENGINEER



Ramya **B.E. CSE (2025)**

DATA ANALYST



Vidhya Varshini
B E Aeronautical (2025)

WEB DEVELOPER



Deenadhayalan **BSc CS (2025)**

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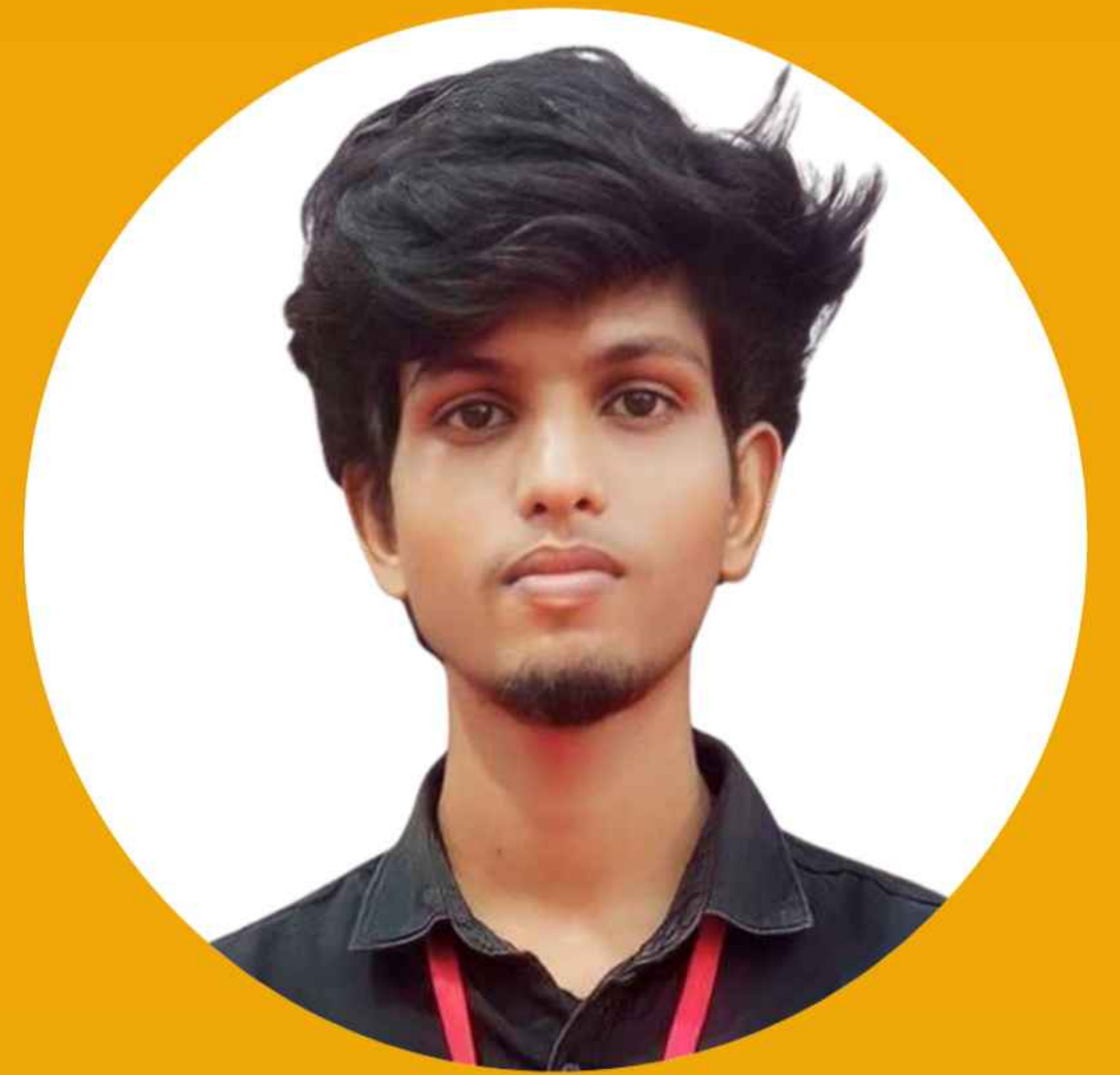
Dharshini E **B.E CSE (2025)**

FULL STACK DEVELOPER INTERN



Vimala G **BE ECE (2016)**

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Ramesh **B.Com (2025)**

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Iyappan **MCA (2025)**

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Information
Solutions



Uthaya **ME (2015)**

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AJAY RAJA **B.Tech CSE (2025)**

DEVOPS ENGINEER INTERN



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DATA ANALYST INTERN



Manikandan **B.Sc (2025)**

DATA ANALYST



Vigneshwaralingam
B.E CSE (2025)

SOFTWARE ENGINEER



Swetha.P **B.Sc CS (2025)**

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Kavya S **BE CSE (2025)**

SOFTWARE ENGINEER INTERN



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PYTHON

Module 1: Python Introduction, Installation

- Python Introduction
- Download Python, Installing Python
- Verify The Installation
- Install A Text Editor Or IDE (Optional)

Module 2: Data Types

- Numeric Types
- Text Type
- Boolean Type
- None Type

Module 3: Operators

- Arithmetic Operators
- Comparison Operators
- Logical Operators
- Assignment Operators
- Membership Operators
- Identity Operators

Module 4: Functions

- Function Call
- Return Statement
- Types Of Parameters - Default Parameters, Variable Length Arguments
- Variable-Length Argument Lists, Lambda Functions, Recursion

Module 5: Flow Control Statements

- **Looping Statements:** for, while
- **Conditional Statements:** if, elif, else
- **Exception Handling:** try, except, finally
- Pass Statement

Project: *Calculator Application*



PYTHON

Module 6: List

- Creating A List
- Accessing Elements
- Slicing
- Modifying Elements
- Adding Elements
- Removing Elements
- Sorting: Bubble Sort, Searching: Binary Search

Project: Phone Book Application

Module 7: Tuple

- Creating A Tuple
- Accessing Elements
- Slicing
- Tuple Packing And Unpacking
- Immutable Nature

Project: Inventory Management Application

Module 8: Set

- Creating A Set
- Accessing Elements, Adding Elements, Removing Elements
- Set Operations
- Other Set Operations

Project: Unique Words From A Book

Module 9: Dictionary

- Creating A Dictionary, Accessing Values, Modifying Values
- Adding New Key-Value Pairs, Removing Key-Value Pairs
- Dictionary Operations, Nested Dictionaries

Project: Student Management System



PYTHON

Module 10: Package

- Creating A Package
- Importing Modules From A Package
- Importing The Whole Package
- Subpackages

Module 11: Python OOPs Introduction

- Class, Object
- Attributes And Methods
- Encapsulation
- Inheritance
- Polymorphism
- Abstraction

Project: Employee Management System

Module 12: Type Of Methods

- Instance Methods
- Class Methods
- Static Methods
- Special Methods (Magic Methods Or Dunder Methods)

Module 13: Exception Handling

- Try-Except Block
- Handling Specific Exceptions
- Else And Finally Blocks
- Raising And Custom Exceptions

Module 14: File Handling

- Opening, Reading, Writing From A File, Appending To A File
- Using With Statements, File Modes
- Exception Handling For File Operations, Working With Paths

Project: CSV File Parser Application



PYTHON

Module 15: Regular Expression

- Basics Of Regular Expressions
- Using Regular Expressions In Python

Projects:

1. *Email Validator*
2. *Mobile Number Extractor*
3. *Password Validator*

*****Assignments Will Be Given After Each Module*****



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