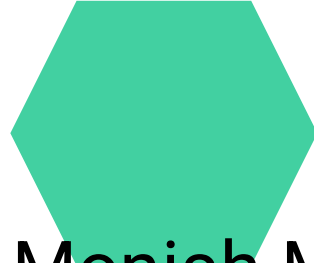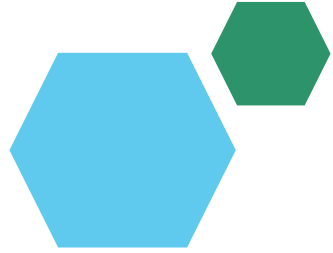# Digital Portfolio

STUDENT NAME: Monish M

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DEPARTMENT:II-BSC(CS)

COLLEGE: Government arts and science college tirupattur

PROJECT TITLE

Student Digital portfolio Using Cloud computing

AGENDA

1. Problem Statement
2. Project Overview
3. End Users
4. Tools and Technologies
5. Portfolio design and Layout
6. Features and Functionality
7. Results and Screenshots
8. Conclusion
9. Github Link

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PROBLEM STATEMENT

1. Data security and privacy issues while using third-party servers.

2. Service downtime affects reliability and accessibility.

3. Vendor lock-in makes migration between providers difficult.

4. Cost management is complex due to variable usage charges.

5. Compliance with laws and regulations is challenging.
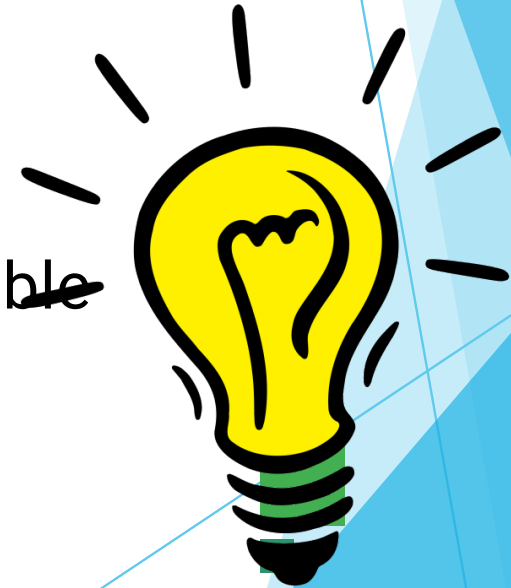
PROJECT OVERVIEW

1. Provides IT services like storage and servers via the internet.
2. Aims for cost reduction and resource efficiency.
3. Offers scalability and on-demand access.
4. Applied in web hosting, data storage, and AI.
5. Ensures flexibility, continuity, and innovation.

WHO ARE THE END USERS?

1. Individuals – Use cloud for storage, communication, entertainment, and social media.
2. Businesses (SMBs) – Use cloud to cut IT costs, host websites, and manage operations.
3. Large Enterprises – Depend on cloud for scalability, big data analytics, and global collaboration.
4. Government & Public Sector – Apply cloud for e-governance, citizen services, healthcare, and education.
5. Developers & Researchers – Use cloud platforms for app development, testing, and advanced

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TOOLS AND TECHNIQUES

1. Virtualization – Divides physical resources into multiple virtual machines for better use.
2. Containerization – Uses tools like Docker to run applications in lightweight containers.
3. Automation – Tools like Ansible and Terraform automate cloud setup and management.
4. Monitoring – CloudWatch, Nagios, etc., track system performance and reliability.

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POTFOLIO DESIGN AND LAYOUT

1. Cover Page – Title, Name, Course, Date

2. Introduction – Brief about cloud computing

3. Project Overview – Objectives & scope

4. Problem Statement – Issues addressed

5. Tools & Techniques – Platforms & methods used

6. End Users – Who benefits from cloud

7. Architecture & Design – Diagram & flow

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FEATURES AND FUNCTIONALITY

Features of Cloud Computing

1. On-demand service – access anytime.
2. Broad network access – use from anywhere.
3. Resource pooling – shared resources.

Functionality of Cloud Computing

1. Data storage and backup.
2. Application hosting and software use.
3. High processing power.

RESULTS AND SCREENSHOTS

CONCLUSION

Cloud Computing

1. Provides scalable and flexible computing resources.

2. Reduces IT costs with pay-as-you-go models.

3. Enhances data accessibility from anywhere, anytime.

4. Supports innovation through advanced tools and services.

5. Improves business efficiency and collaboration.