

- Title: *Internship Experience at Visual Indie Media Sdn Bhd*
- Subtitle: *Developing Full-Stack Web Applications for Digital Media Solutions*
- Presenter: Saiful Islam
- Supervisors:
 - 1. Dr. Hafizah Farhah (University)
 - 2. Mr. Nihantha Bala (Organization)
- Duration: 23rd September 2024 – 7th February 2025

About the Company



Name: Visual Indie Media Sdn Bhd



Location: Kuala Lumpur, Malaysia



Core Focus: Digital solutions, AI, full-stack development, and cloud deployment



Team Size: Approx. 10–15 employees

Organization Structure

CEO: Dave J

CMO: Farouk Nuresh

Key Teams:

- Business Development: Nihantha Bala
- Finance: Amy
- Design: Georgie, John
- Marketing: George Brown, Dina, Matthew
- Development: Mehedi, Cheema, Hema

Training Overview



Role: Full-Stack Developer Intern



Division: Research & Development (R&D)

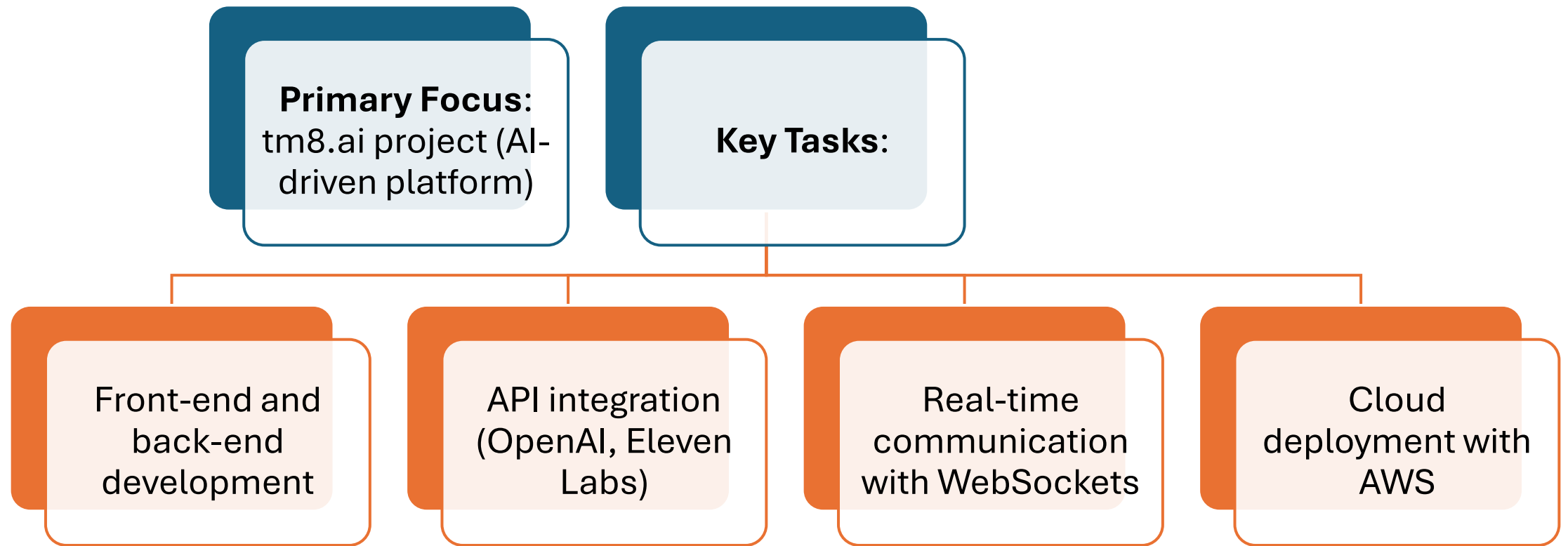


Supervisor: Mr. Nihantha Bala



Objective: Bridging academic learning with real-world industrial practices

Main Tasks & Responsibilities



Tools & Technologies



Programming:
Python, Django,
FastAPI



Databases:
MySQL, Redis



AI Integration:
OpenAI APIs,
Eleven Labs



Cloud Platforms:
AWS EC2, RDS



Version Control:
Git



Other Tools:
Postman, Docker

Achievements



SUCCESSFULLY IMPLEMENTED
AI FEATURES FOR TM8.AI



IMPROVED SYSTEM RELIABILITY
WITH DATABASE OPTIMIZATION
AND CACHING



ENHANCED VOICE ASSISTANT
WITH REAL-TIME
COMMUNICATION FEATURES



OVERCAME CHALLENGES LIKE
API RATE LIMITS AND SECURE
JWT AUTHENTICATION

Skills Gained



Technical: Full-stack development, API design, cloud deployment



Problem-Solving: Debugging, performance optimization



Collaboration: Working with interdisciplinary teams



Time Management: Meeting deadlines for project milestones

Challenges Faced



CONFIGURING AWS
ENVIRONMENTS



HANDLING REAL-TIME
COMMUNICATION WITH
WEBSOCKETS



RESOLVING JWT
AUTHENTICATION
ISSUES



OPTIMIZING APIS FOR
SCALABILITY

Conclusion & Acknowledgment

Key Takeaways:

- Bridged the gap between academic and industry practices
- Gained hands-on experience in advanced technologies

Acknowledgment:

- Thank Visual Indie Media, supervisors, and UTM for the opportunity