

ProSensia Internship Report Week 4 - Day 2

Date: 7-15-2025

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Today's Focus:

JavaScript - Variables and Data Types

Topics Covered:

1. **JavaScript Variables:**
 - Declaration using `var`, `let`, and `const`
 - Scope and hoisting differences
 - Reassignment and redeclaration rules
 2. **Data Types:**
 - Primitive Types: String, Number, Boolean, Undefined, Null, Symbol, BigInt
 - Reference Types: Objects, Arrays, Functions
 3. **Type Conversion:**
 - Implicit type coercion by JavaScript
 - Explicit type conversion using `Number()`, `String()`, `Boolean()`
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Hands-on Practice:

- Declared and initialized variables using all three types.
 - Created examples for each primitive and reference data type.
 - Performed type conversion on different values.
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Challenges Faced:

- Differentiating between `undefined` and `null`
 - Remembering scope limitations of `let` and `const`
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Learning Outcome:

- Understood the significance of using `let` and `const` over `var`
 - Gained confidence in identifying and using different JavaScript data types
 - Practiced real-time examples involving type conversion
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Next Steps:

- Explore JavaScript Operators and Control Flow
- Build logic-based mini projects for further practice