# Tech Learning Plan

## Step 1: Diving into Prompt Engineering

### 1. Basics of AI & Natural Language Processing (NLP)

• AI for Everyone by Andrew Ng: [Course on Coursera](https://www.coursera.org/learn/ai-for-everyone)  
• Overview of LLMs: An article explaining how large language models like ChatGPT work.  
• Suggested Note: 'I thought starting here would be exciting and interactive! Understanding how AI models think can spark a deeper love for tech. Let's explore it together!'

### 2. Hands-on with Prompt Engineering

• OpenAI's ChatGPT & Playground: [OpenAI Playground](https://platform.openai.com/playground) for experimenting with prompts.  
• Learn Prompting Guide: [Learn Prompting](https://learnprompting.org) – a comprehensive guide with examples.  
• Prompt Engineering Techniques: Try tweaking prompts for tasks like writing, summarization, or answering questions.  
• Suggested Note: 'Playing around with prompts can feel like having a conversation with a genius assistant. Have fun and get creative!'

## Step 2: Choosing a Tech Focus

### 1. Web Development (For Building Websites and Apps)

#### • Frontend Development:

• HTML & CSS Basics: [freeCodeCamp's Responsive Web Design](https://www.freecodecamp.org/learn)  
• JavaScript Foundations: [JavaScript 30](https://javascript30.com) – a project-based approach.  
• React Basics: [React Official Tutorial](https://react.dev/learn)  
• Suggested Note: 'Creating your first website can be thrilling. I'll be here to help you debug, don’t worry!'

#### • Backend Development:

• Django for Beginners: [Django Girls Tutorial](https://tutorial.djangogirls.org)  
• Node.js Basics: [The Odin Project](https://www.theodinproject.com/paths/full-stack-javascript)  
• Suggested Note: 'This is where the magic behind the scenes happens. Pick what feels more exciting!'

### 2. Data Analysis & Data Science (For Working with Data)

• Python for Data Analysis: [DataCamp's Python Programming Track](https://www.datacamp.com)  
• Pandas and Data Visualization: [Python for Data Analysis Book](https://wesmckinney.com/book/) by Wes McKinney.  
• Kaggle for Practice: [Kaggle](https://www.kaggle.com) – join competitions and analyze datasets.  
• Suggested Note: 'Data is the new oil! Let’s turn those numbers into stories together.'

### 3. Cloud Computing & DevOps (For Infrastructure and Deployment)

• AWS Cloud Practitioner Essentials: [AWS Training](https://aws.amazon.com/training/)  
• Google Cloud Skills Boost: [Google Cloud Training](https://www.cloudskillsboost.google)  
• Learn Docker Basics: [Docker's Official Documentation](https://docs.docker.com/get-started/)  
• Suggested Note: 'Think of this as mastering the engine room of big tech companies. It's powerful stuff!'

### 4. Machine Learning & AI (For Advanced AI Projects)

• Machine Learning by Andrew Ng: [Course on Coursera](https://www.coursera.org/learn/machine-learning)  
• Fast.ai's Practical Deep Learning: [Fast.ai](https://www.fast.ai)  
• Building Models with TensorFlow: [TensorFlow Tutorials](https://www.tensorflow.org/tutorials)  
• Suggested Note: 'This path will help you create the brains behind intelligent systems. It’s both challenging and rewarding.'

## Step 3: Building Projects & Gaining Experience

• Create a Personal Website: Showcase what she’s learned using HTML, CSS, and JavaScript.  
• Analyze a Kaggle Dataset: Post findings on GitHub or write a blog.  
• Suggested Note: 'Projects will be your proof of work. I’m excited to see your ideas come to life!'

## Step 4: Portfolio & Networking

• GitHub Setup: [GitHub Guides](https://guides.github.com/activities/hello-world/) – for creating a repository.  
• LinkedIn Profile: [LinkedIn Learning](https://www.linkedin.com/learning) – tips on professional networking.  
• Writing Blogs: Platforms like [Medium](https://medium.com) to share what she’s learned.  
• Suggested Note: 'Your tech journey is about sharing and learning from the community. I’ll always be cheering you on!'