Here is the **updated fake meeting results** with the correct roles:

* **Daniel (Developer)**
* **Max (Project Manager)**
* **Kyle (UI Designer)**
* **Alex (Tester)**

**Week 1**

**Meeting 1 (Wednesday) – Project Kickoff**

* **Discussion:** Defined project scope, objectives, and assigned team roles.
* **Decisions:**
  + Daniel (Developer) to set up the environment and install necessary libraries.
  + Max (Project Manager) to draft a preliminary project timeline.
  + Kyle (UI Designer) to research possible dashboard designs.
  + Alex (Tester) to study cybersecurity test cases.
* **Action Items:**
  + Complete the setup of Python, TShark, and PyTorch by Sunday.
  + Research potential dataset sources for training the AI model.

**Meeting 2 (Sunday) – Environment Setup & Research Progress**

* **Discussion:** Reviewed initial progress on environment setup and research.
* **Progress:**
  + Python and required libraries installed successfully.
  + Initial research on AI-based network security completed.
* **Challenges:**
  + TShark installation issues encountered (resolved by adding to PATH).
  + Need more datasets for AI model training.
* **Action Items:**
  + Max to look for additional dataset sources.
  + Daniel to begin basic data collection with PyShark.

**Week 2**

**Meeting 3 (Wednesday) – Data Collection Implementation**

* **Discussion:** Started implementing data collection using TShark and PyShark.
* **Progress:**
  + Successfully captured live network traffic.
  + Stored captured packets in CSV format for preprocessing.
* **Challenges:**
  + Some IPs not encoding properly in LabelEncoder.
* **Action Items:**
  + Daniel to refine data encoding to handle unseen IPs.
  + Kyle to work on a draft UI design for reporting threats.

**Meeting 4 (Sunday) – Data Preprocessing & Initial AI Model Setup**

* **Discussion:** Reviewed encoding fixes and AI model setup.
* **Progress:**
  + Dynamic encoding added for unseen IPs.
  + AI model architecture drafted using PyTorch.
* **Challenges:**
  + Need to determine the best number of neural network layers.
* **Action Items:**
  + Daniel to fine-tune the model parameters.
  + Alex to prepare test cases for different network traffic scenarios.

**Week 3**

**Meeting 5 (Wednesday) – AI Model Training**

* **Discussion:** Started training the AI model with preprocessed data.
* **Progress:**
  + Model training achieved 75% accuracy on test data.
  + Firewall rule integration research started.
* **Challenges:**
  + False positives occurring too frequently.
* **Action Items:**
  + Daniel to adjust feature selection and hyperparameters.
  + Kyle to finalize UI wireframe for the dashboard.

**Meeting 6 (Sunday) – Model Optimization & Firewall Research**

* **Discussion:** Reviewed improvements in model accuracy.
* **Progress:**
  + Accuracy improved to 82% after fine-tuning.
  + Firewall blocking mechanism drafted.
* **Challenges:**
  + Need a way to store logs systematically.
* **Action Items:**
  + Implement logging with timestamps and threat levels.
  + Alex to begin testing AI model on new traffic datasets.

**Week 4**

**Meeting 7 (Wednesday) – Logging & Alert System**

* **Discussion:** Integrated logging for detected threats.
* **Progress:**
  + Log files structured with timestamps and severity levels.
  + Email alert system for high-risk threats implemented.
* **Challenges:**
  + Email notifications occasionally delayed.
* **Action Items:**
  + Optimize email notification delivery time.
  + Max to draft mid-project progress report.

**Meeting 8 (Sunday) – Live Testing & Firewall Rule Execution**

* **Discussion:** Ran live traffic detection tests.
* **Progress:**
  + Detected multiple attack patterns in real-time testing.
  + Successfully blocked malicious IPs using automated firewall rules.
* **Challenges:**
  + Need to optimize firewall rules for better response time.
* **Action Items:**
  + Daniel to refine blocking logic.
  + Kyle to finalize UI prototype for visualization.

**Week 5**

**Meeting 9 (Wednesday) – UI Prototype Testing & Refinements**

* **Discussion:** Reviewed and tested initial UI prototype.
* **Progress:**
  + Basic dashboard developed with logs, alerts, and network monitoring.
* **Challenges:**
  + Some elements need better responsiveness on different screen sizes.
* **Action Items:**
  + Kyle to optimize UI layout.
  + Alex to conduct additional usability testing.

**Meeting 10 (Sunday) – Performance Optimization & Final AI Model Testing**

* **Discussion:** Focused on reducing system latency.
* **Progress:**
  + AI model inference time improved by 20%.
  + Firewall response time reduced with optimized rule execution.
* **Challenges:**
  + Some normal traffic was mistakenly flagged as malicious.
* **Action Items:**
  + Daniel to fine-tune model to reduce false positives.
  + Max to finalize documentation for the project.

**Week 6**

**Meeting 11 (Wednesday) – Final System Testing**

* **Discussion:** Conducted final end-to-end tests.
* **Progress:**
  + Successfully detected and blocked simulated attack traffic.
  + All modules tested and verified.
* **Challenges:**
  + Minor logging inconsistencies.
* **Action Items:**
  + Fix logging format inconsistencies.
  + Prepare final presentation slides.

**Meeting 12 (Sunday) – Final Review & Submission Preparation**

* **Discussion:** Reviewed entire project and prepared for submission.
* **Progress:**
  + Documentation, code, and presentation finalized.
  + Walkthrough rehearsal completed.
* **Challenges:**
  + None, project ready for submission.
* **Action Items:**
  + Submit report and prepare for group presentation.