Futurense Internship

Internship Schedule

Sprint-1: Linux

Detailed Sprint Internship Plan is shared a before every Sprint

Sprint-1: Linux Detailed Schedule

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Day #	Date	Day of Week	Topics & Subtopics	Mode of Session	Engagement Activity	Mini-Project & Exercises	Daily Deliverables	Self-Study/Research
Day 1	3rd Jan	Wednesday	Introduction to Agile and Corporate Culture GitHub Basics: Account Setup and Git Installation	Remote Session	Introduction to Program	Guided Exercise: Agile Concepts Unguided Exercise: WSL Installation	Install WSL, Create GitHub Account, Install Git, Signing up on monday.com	Read about Agile Methodologies
Day 2	4th Jan	Thursday	GitHub: Repositories and Branches Linux Basics: CLI, File System	Remote Session	Live Trainer Session	Project: Initialize a New Repository Exercise: Basic Git Commands	Configure Git, Create and Clone a Repository Create a New Branch, Commit Changes	Explore GitHub Documentation
Day 3	5th Jan	Friday	Advanced GitHub: Issue Tracking, GitHub Actions Linux Commands: File Permissions, Process Management	Remote Session	Doubt Clearing Session	Project: Collaborative Workflows on GitHub Exercise: Advanced Git Usage	Open an Issue, Set Up a Basic GitHub Action Manage File Permissions in Linux, Monitor Processes	Learn about GitHub Actions
Day 5	6th Jan	Saturday	Weekly Assessment: GitHub and Basic Linux Commands	Remote Session	Project Work	Assessment: MCQ Test	Complete Online MCQ Assessment	Review Week's Learning, Udemy Course
Day 6	7th Jan	Sunday	Rest Day					

Sprint-1: Linux Detailed Schedule

Day #	Date	Day of Week	Topics & Subtopics	Mode of Session	Engagement Activity	Mini-Project & Exercises	Daily Deliverables	Self-Study/Research
Day 7	8th Jan	Monday	Corporate Experience - A Day in the Office	Industrial Visit Session - Futurense Office	Soft-skill Session Mock-Interview Presentation of Deliverables	GD on Technological Impact, Mock Interview	Presentation of Previous Week's Deliverables, Backlog RCA and Remediations, QnA on Previous Week's Self-Study	Udemy Course
Day 8	9th Jan	Tuesday	Linux Shell Scripting: Basics	Remote Session	Standup Call (Scrum Meeting)	Guided Exercise: Script Structure	Write a Basic Shell Script	Study Basic Shell Scripting
			Agile Methodology: Sprint Planning			Unguided Exercise: Basic Automation Script	Plan Sprint Tasks, Update GitHub with Sprint Plan	
Day 9	10th Jan	Wednesday	Linux Shell Scripting: Control Structures	Remote Session	Standup Call (Scrum Meeting)	Guided Exercise: Control Structures in Script	Enhance Shell Script with Control Structures	Deep Dive into Shell Scripting
			Agile Review: Retrospectives			Unguided Exercise: Script Debugging	Review Week's Progress, Retrospective Meeting Notes	
Day 10	11th Jan	Thursday	Agile Project Management: User Stories	On-Campus Trainer Session - Jain Campus	Live Trainer Session	Guided Exercise: Writing Effective User Stories	Create User Stories for the Project	Study User Story Mapping
			GitHub Advanced: Collaborative Workflows			Unguided Exercise: Merge Conflicts	Resolve Merge Conflicts in GitHub	Review GitHub Flow
Day 11	12th Jan	Friday	Linux Scripting: File Operations	On-Campus Trainer Session - Jain Campus	Doubt Clearing Session	Project: File Management Script	Develop a Script for File Backup and Restoration	Learn about Linux Filesystems
			GitHub: Code Reviews and Pull Requests			Exercise: Conducting Code Reviews	Perform Code Review on a Team Member's Pull Request	Explore Best Practices in Code Reviews
Day 12	13th Jan	Saturday	Weekly Assessment: Linux Commands, File System and Fundamentals	Remote Session	Project Work	Assessment: MCQ Test	Complete Online MCQ Assessment	Review Week's Learning, Udemy Course
Day 13	14th Jan	Sunday	Rest Day					

Sprint-1: Linux Detailed Schedule

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Day #	Date	Day of Week	Topics & Subtopics	Mode of Session	Engagement Activity	Mini-Project & Exercises	Daily Deliverables	Self-Study/Research
Day 14	15th Jan	Monday	Holiday					
Day 15	16th Jan	Tuesday	AI900 Certification Exam Prep Leave					
Day 16	17th Jan	Wednesday	AI900 Certification Exam Prep Leave					
Day 17	18th Jan	Thursday	AI900 Certification Exam					
Day 18	19th Jan	Friday	Shell Scripting: Advanced Automation	Remote Session	Standup Call (Scrum Meeting)	Guided Exercise: Automation with Scripting	Create an Automated System Update Script	Study Advanced Shell Scripting Techniques
			Agile Retrospectives			Unguided Exercise: Sprint Review Preparation	Prepare for Sprint Review, Document Learnings	Review Agile Retrospective Techniques
Day 19	20th Jan	Saturday	3rd Saturday - Holiday					
Day 20	21st Jan	Monday	Corporate Experience - A Day in the Office	Industrial Visit Session - Futurense Office	Soft-skill Session Mock-Interview Presentation of Deliverables	GD on Ethical Implication of Technology, Mock Interview	Presentation of Previous Week's Deliverables, Backlog RCA and Remediations, QnA on Previous Week's Self-Study	Udemy Course
Day 21	22nd Jan	Tuesday	Shell Scripting: Scheduling with Cron	Remote Session	Standup Call (Scrum Meeting) Sprint Retrospective Meeting	Guided Exercise: Cron Job Scripting	Setup Cron Jobs for Routine Script Execution	Learn about Cron and Job Scheduling in Linux
			Agile Planning: Next Sprint Overview			Unguided Exercise: Next Sprint Planning	Plan Tasks for Next Sprint, Update GitHub with Plan	Study Sprint Planning Techniques

AIML Full Internship Plan

Might change before every Sprint

Full Internship Schedule- AIML

Date	Day of the week	Sprints (Projects)	Modules	Themes	Drexel-ML Program
02 January 2024	Tuesday	Sprint 1 - H1 (02nd Jan - 16th Jan)	Linux -Shell Scripting (Bootcamp + Project implementation)	Introduction to Agile and Corporate Culture	6:00 PM to 7:30PM
03 January 2024	Wednesday			GitHub Basics: Account Setup and Git Installation	6:00 PM to 7:30PM
04 January 2024	Thursday			GitHub: Repositories and Branches	6:00 PM to 7:30PM
05 January 2024	Friday			Linux Basics: CLI, File System	
06 January 2024	Saturday			Advanced GitHub: Issue Tracking, GitHub Actions	
07 January 2024	Sunday			Sunday	
08 January 2024	Monday			Corporate Experience - A Day in the Office, Linux Shell Scripting: Basics,	
09 January 2024	Tuesday			Agile Methodology: Sprint Planning	6:00 PM to 7:30PM
10 January 2024	Wednesday			Linux Shell Scripting: Control Structures	6:00 PM to 7:30PM
11 January 2024	Thursday			Agile Review: Retrospectives	6:00 PM to 7:30PM
12 January 2024	Friday			Agile Project Management: User Stories	
13 January 2024	Saturday			GitHub Advanced: Collaborative Workflows	
14 January 2024	Sunday			Sunday	
15 January 2024	Monday			Holiday	
16 January 2024	Tuesday			Prep Leave	6:00 PM to 7:30PM
17 January 2024	Wednesday	Sprint 1 - H2 (17th Jan - 31st Feb)	Data Manipulation with Python (Bootcamp + Project implementation)	Prep Leave	6:00 PM to 7:30PM
18 January 2024	Thursday			AI 900 Certification Exam	6:00 PM to 7:30PM
19 January 2024	Friday			Corporate Experience - A Day in the Office	
20 January 2024	Saturday			3rd Saturday Holiday	
21 January 2024	Sunday			Sunday	
22 January 2024	Monday			Shell Scripting: Advanced Automation Agile Retrospectives	
23 January 2024	Tuesday			Shell Scripting: Scheduling with Cron Agile Planning: Next Sprint Overview	6:00 PM to 7:30PM
24 January 2024	Wednesday			Advanced Python Concepts	6:00 PM to 7:30PM
25 January 2024	Thursday			Error Handling	6:00 PM to 7:30PM
26 January 2024	Friday			Republic Day Holiday	
27 January 2024	Saturday			Introduction to Data Libraries, Data Cleaning and Preparation	
28 January 2024	Sunday			Sunday	
29 January 2024	Monday			Data Analysis with Python	
30 January 2024	Tuesday			Data Visualization	6:00 PM to 7:30PM
31 January 2024	Wednesday			Introduction to Databases	6:00 PM to 7:30PM

Full Internship Schedule- AIML

Date	Day of the week	Sprints (Projects)	Modules	Themes	Drexel-ML Program
01 February 2024	Thursday	Sprint 2 - H1 (01st Feb - 15th Feb)	Basic SQL (Bootcamp + Project implementation)	Introduction to Databases	6:00 PM to 7:30PM
02 February 2024	Friday			Introduction to SQL	
03 February 2024	Saturday				
04 February 2024	Sunday			Sunday	
05 February 2024	Monday			DDL, DML	
06 February 2024	Tuesday			DML	6:00 PM to 7:30PM
07 February 2024	Wednesday			DQL	6:00 PM to 7:30PM
08 February 2024	Thursday			DQL	6:00 PM to 7:30PM
09 February 2024	Friday			DQL	
10 February 2024	Saturday			3rd Saturday Holiday	
11 February 2024	Sunday			Sunday	
12 February 2024	Monday			SQL Functions	
13 February 2024	Tuesday			Group By Clause	6:00 PM to 7:30PM
14 February 2024	Wednesday			Rollup and Cube	6:00 PM to 7:30PM
15 February 2024	Thursday			Rollup and Cube	6:00 PM to 7:30PM
16 February 2024	Friday	Sprint 2 - H2 (16th Feb - 01st March)	Advanced SQL (Bootcamp + Project implementation)	Multi-table Queries	
17 February 2024	Saturday				
18 February 2024	Sunday			Sunday	
19 February 2024	Monday			SubQuery Vs Joins	
20 February 2024	Tuesday			Set Operations	
21 February 2024	Wednesday			Window Functions	
22 February 2024	Thursday			CTE	
23 February 2024	Friday			Views, Stored Routines	
24 February 2024	Saturday				
25 February 2024	Sunday			Sunday	
26 February 2024	Monday			Stored Functions	
27 February 2024	Tuesday			Index	
28 February 2024	Wednesday		Python + SQL (Bootcamp + Project implementation)	Python + SQL Integration	
29 February 2024	Thursday			Python + SQL Integration	
01 March 2024	Friday			Introduction to Power BI	

Full Internship Schedule- AIML

Date	Day of the week	Sprints (Projects)	Modules	Themes
02 March 2024	Saturday	Sprint 3 - H1 (02nd March - 16th March)	Data Visualization : Power BI ,Python Data Visualization ,Working with APIs (Bootcamp + Project implementation)	
03 March 2024	Sunday			Sunday
04 March 2024	Monday			Introduction to Power BI
05 March 2024	Tuesday			Data Modeling and Visualization
06 March 2024	Wednesday			Data Modeling and Visualization
07 March 2024	Thursday			Advanced Data Visualization and DAX
08 March 2024	Friday			Advanced Data Visualization and DAX, Dashboards and Reports
09 March 2024	Saturday			
10 March 2024	Sunday			Sunday
11 March 2024	Monday			Dashboards and Reports
12 March 2024	Tuesday			Python Data Visualization
13 March 2024	Wednesday			Advanced Python Visualization
14 March 2024	Thursday			Introduction to APIs
15 March 2024	Friday			API Data Visualization
16 March 2024	Saturday			3rd Saturday Holiday
17 March 2024	Sunday	Sprint 3 - H2 (17th March - 31st March)	Cloud Computing - GCP DE	Sunday
18 March 2024	Monday			Overview od Cloud Computing
19 March 2024	Tuesday			Introduction to GCP
20 March 2024	Wednesday			GCP Account Setup
21 March 2024	Thursday			Navigating GCP Console
22 March 2024	Friday			Basic Compute Services
23 March 2024	Saturday			
24 March 2024	Sunday			Sunday
25 March 2024	Monday			Data Storage Options
26 March 2024	Tuesday			Introduction to BigQuery
27 March 2024	Wednesday			BigQuery Basics
28 March 2024	Thursday			Big Query Advanced
29 March 2024	Friday			
30 March 2024	Saturday			
31 March 2024	Sunday			

Full Internship Schedule- AIML

Date	Day of the week	Sprints (Projects)	Modules
01 April 2024	Monday	Sprint 4 - H1 (01st April - 15th April)	Data Engineering Project implementation with Cloud Deployment
02 April 2024	Tuesday		
03 April 2024	Wednesday		
04 April 2024	Thursday		
05 April 2024	Friday		
06 April 2024	Saturday		
07 April 2024	Sunday		
08 April 2024	Monday		
09 April 2024	Tuesday		
10 April 2024	Wednesday		
11 April 2024	Thursday		
12 April 2024	Friday		
13 April 2024	Saturday		
14 April 2024	Sunday		
15 April 2024	Monday		
16 April 2024	Tuesday	Sprint 4 - H2 (16th April - 28th April)	Capstone Projects
17 April 2024	Wednesday		
18 April 2024	Thursday		
19 April 2024	Friday		
20 April 2024	Saturday		
21 April 2024	Sunday		
22 April 2024	Monday		
23 April 2024	Tuesday		Ace the interview sessions - Technical prep + Case study prep + Pseudo coding prep (put across the sprints)
24 April 2024	Wednesday		
25 April 2024	Thursday		
26 April 2024	Friday		
27 April 2024	Saturday		
28 April 2024	Sunday		

Cybersecurity Full Internship Plan

Might change before every Sprint

Full Internship Schedule- Cybersecurity

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Date	Day of the week	Sprints (Projects)	Modules	Themes	Drexel-ML Program
02-Jan-24	Tuesday	Sprint 1 - H1 (02nd Jan - 16th Jan)	Linux -Shell Scripting	Introduction to Agile and Corporate Culture	6:00 PM to 7:30PM
03-Jan-24	Wednesday			GitHub Basics: Account Setup and Git Installation	6:00 PM to 7:30PM
04-Jan-24	Thursday			GitHub: Repositories and Branches	6:00 PM to 7:30PM
05-Jan-24	Friday			Linux Basics: CLI, File System	
06-Jan-24	Saturday			Advanced GitHub: Issue Tracking, GitHub Actions	
07-Jan-24	Sunday			Sunday	
08-Jan-24	Monday			Corporate Experience - A Day in the Office, Linux Shell Scripting: Basics,	
09-Jan-24	Tuesday			Agile Methodology: Sprint Planning	6:00 PM to 7:30PM
10-Jan-24	Wednesday			Linux Shell Scripting: Control Structures	6:00 PM to 7:30PM
11-Jan-24	Thursday			Agile Review: Retrospectives	6:00 PM to 7:30PM
12-Jan-24	Friday			Agile Project Management: User Stories	
13-Jan-24	Saturday			GitHub Advanced: Collaborative Workflows	
14-Jan-24	Sunday			Sunday	
15-Jan-24	Monday			Holiday	
16-Jan-24	Tuesday			Prep Leave	6:00 PM to 7:30PM
17-Jan-24	Wednesday	Sprint 1 - H2 (17th Jan - 31st Feb)	Data Manipulation with Python (Bootcamp + Project implementation)	Prep Leave	6:00 PM to 7:30PM
18-Jan-24	Thursday			AI 900 Certification Exam	6:00 PM to 7:30PM
19-Jan-24	Friday			Corporate Experience - A Day in the Office	
20-Jan-24	Saturday			3rd Saturday Holiday	
21-Jan-24	Sunday			Sunday	
22-Jan-24	Monday			Shell Scripting: Advanced Automation Agile Retrospectives	
23-Jan-24	Tuesday			Shell Scripting: Scheduling with Cron Agile Planning: Next Sprint Overview	6:00 PM to 7:30PM
24-Jan-24	Wednesday			Advanced Python Concepts	6:00 PM to 7:30PM
25-Jan-24	Thursday			Error Handling	6:00 PM to 7:30PM
26-Jan-24	Friday			Holiday	
27-Jan-24	Saturday			Introduction to Data Libraries Data Cleaning and Preparation	
28-Jan-24	Sunday			Sunday	
29-Jan-24	Monday			Data Analysis with Python	
30-Jan-24	Tuesday			Data Visualization	6:00 PM to 7:30PM
31-Jan-24	Wednesday				6:00 PM to 7:30PM

Full Internship Schedule- Cybersecurity

Date	Day of the week	Sprints (Projects)	Modules	Themes	Drexel-ML Program
01-Feb-24	Thursday			Introduction to Databases	6:00 PM to 7:30PM
02-Feb-24	Friday			Introduction to SQL	
03-Feb-24	Saturday			DDL	
04-Feb-24	Sunday			Sunday	
05-Feb-24	Monday			DML	
06-Feb-24	Tuesday			DML	6:00 PM to 7:30PM
07-Feb-24	Wednesday			DQL	6:00 PM to 7:30PM
08-Feb-24	Thursday	Sprint 2 - H1 (01st Feb - 15th Feb)	Basic SQL (Bootcamp + Project implementation)	DQL	6:00 PM to 7:30PM
09-Feb-24	Friday			DQL	
10-Feb-24	Saturday			SQL Functions	
11-Feb-24	Sunday			Sunday	
12-Feb-24	Monday			SQL Functions	
13-Feb-24	Tuesday			Group By Clause	6:00 PM to 7:30PM
14-Feb-24	Wednesday				6:00 PM to 7:30PM
15-Feb-24	Thursday			Multi-table Queries	6:00 PM to 7:30PM
16-Feb-24	Friday			Multi-table Queries SubQuery Vs Joins	
17-Feb-24	Saturday			3rd Saturday Holiday	
18-Feb-24	Sunday			Sunday	
19-Feb-24	Monday			Overview of Cybersecurity	
20-Feb-24	Tuesday			Cybersecurity Mindset	
21-Feb-24	Wednesday		Introduction to Cybersecurity	Fundamentals of Network	
22-Feb-24	Thursday	Sprint 2 - H2 (16th Feb - 01st March)		Cryptography basics	
23-Feb-24	Friday			Advanced Cryptography	
24-Feb-24	Saturday				
25-Feb-24	Sunday			Sunday	
26-Feb-24	Monday			Authentication and Access	
27-Feb-24	Tuesday			Security Policies	
28-Feb-24	Wednesday			**Web Security Fundamentals**	
29-Feb-24	Thursday		Fundamentals of Network Security		
01-Mar-24	Friday				

Full Internship Schedule- Cybersecurity

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Date	Day of the week	Sprints (Projects)	Modules	Themes
02-Mar-24	Saturday			Ethical Hacking Overview
03-Mar-24	Sunday			Sunday
04-Mar-24	Monday			Reconnaissance
05-Mar-24	Tuesday			Reconnaissance
06-Mar-24	Wednesday			Footprinting Malware Threats System Security
07-Mar-24	Thursday	Sprint 3 - H1 (02nd March - 16th March)	Introduction to Ethical Hacking	Footprinting Malware Threats System Security
08-Mar-24	Friday			Footprinting Malware Threats System Security
09-Mar-24	Saturday		Network Security Deep Dive	Footprinting Malware Threats System Security
10-Mar-24	Sunday			Sunday
11-Mar-24	Monday			Firewalls and IDS/IPS
12-Mar-24	Tuesday			Secure Coding Practices
13-Mar-24	Wednesday			Incident Response
14-Mar-24	Thursday			Business Continuity and Disaster Recovery
15-Mar-24	Friday			Data Security
16-Mar-24	Saturday			
17-Mar-24	Sunday			Sunday
18-Mar-24	Monday			Cloud Security
19-Mar-24	Tuesday			Mobile Security
20-Mar-24	Wednesday			SOC Overview : Roles and functions
21-Mar-24	Thursday			Legal and Ethical Issues in Cybersecurity
22-Mar-24	Friday		Mobile Device Management (MDM)	Legal and Ethical Issues in Cybersecurity
23-Mar-24	Saturday	Sprint 3 - H2 (17th March - 31st March)		
24-Mar-24	Sunday			Sunday
25-Mar-24	Monday		Security Operations Center (SOC)	Advanced Threat
26-Mar-24	Tuesday			Data Security
27-Mar-24	Wednesday			Data Security
28-Mar-24	Thursday			Advanced Threats and Analysis
29-Mar-24	Friday			
30-Mar-24	Saturday			
31-Mar-24	Sunday			Sunday

Full Internship Schedule- Cybersecurity

Date	Day of the week	Sprints (Projects)	Modules
01-Apr-24	Monday		
02-Apr-24	Tuesday		
03-Apr-24	Wednesday		
04-Apr-24	Thursday		
05-Apr-24	Friday		
06-Apr-24	Saturday		
07-Apr-24	Sunday		Business Continuity and Disaster Recovery
08-Apr-24	Monday	Sprint 4 - H1 (01st April - 15th April)	
09-Apr-24	Tuesday		Cybersecurity Ethics and Policy
10-Apr-24	Wednesday		
11-Apr-24	Thursday		
12-Apr-24	Friday		
13-Apr-24	Saturday		
14-Apr-24	Sunday		
15-Apr-24	Monday		
16-Apr-24	Tuesday		
17-Apr-24	Wednesday		
18-Apr-24	Thursday		
19-Apr-24	Friday		Capstone Projects
20-Apr-24	Saturday		
21-Apr-24	Sunday		
22-Apr-24	Monday	Sprint 4 - H2 (16th April - 28th April)	
23-Apr-24	Tuesday		
24-Apr-24	Wednesday		
25-Apr-24	Thursday		
26-Apr-24	Friday		Ace the interview sessions - Technical prep + Case study prep + Pseudo coding prep (put across the sprints)
27-Apr-24	Saturday		
28-Apr-24	Sunday		

All the best!