



INTERNSHIP TASKS

**Read Internship Process
and Important Points
Carefully before
starting your Internship**



INTERNSHIP PROCESS

1. Follow us on LinkedIn: <https://www.linkedin.com/company/navinfotech>
2. Post your offer letter on LinkedIn and mention Navodita Infotech in post.
3. Join our Telegram/WhatsApp channels to get internship updates.
4. Telegram channel link: <https://t.me/navinternship>
5. WhatsApp channel link: <https://whatsapp.com/channel/0029VaB1hjtFXUuals6up23d>
6. Complete any one task of your choice from your selected Internship Domain. You can complete more tasks if you want.
7. You can share our internship program to your friends using below link.
8. Registration Link: <https://bit.ly/navinternship>



IMPORTANT POINTS

1. **These Internships are self-paced and unpaid.**
2. **Use dummy or sample data like dataset, contents, images whenever necessary to complete your tasks.**
3. **Complete any one task of your choice from your selected Internship Domain.**
4. **Create complete documentation and project report about your task and upload it on your google drive. You need to share drive link in task submission form.**
5. **Task Submission form shared with you along with task list, Kindly submit tasks before mentioned deadlines in mail.**
6. **You are free to show your creativity and inputs whenever necessary during task.**



C PROGRAMMING

1. **Text-Based Game:** Develop a text-based adventure game in C where users can navigate through a story, make choices, and interact with the game world.
2. **File Management System:** Create a file management system that allows users to perform basic file operations like create, read, update, and delete files and directories.
3. **Mini Compiler:** Build a mini C compiler that can parse and execute a subset of C programming language.
4. **Data Structures Library:** Implement common data structures like linked lists, stacks, and queues in C, and create a library for developers to use.
5. **Cryptography Toolkit:** Develop a program for encrypting and decrypting messages using various encryption algorithms in C.



C++ PROGRAMMING

1. **Data Structures and Algorithms Visualizer:** Create a graphical tool that visualizes common data structures and algorithms in C++, helping learners understand how they work.
2. **Inventory Management System:** Develop a C++ program for managing inventory, tracking products, managing suppliers, and generating reports.
3. **Game Development:** Build a simple 2D game using a game development library like SDL or SFML, which could involve game physics, graphics, and user input.
4. **Compiler or Interpreter:** Create a basic compiler or interpreter for a simple programming language, demonstrating knowledge of lexical analysis and parsing.
5. **Chat Application with Networking:** Develop a chat application with client-server architecture using C++ and sockets for communication.



JAVA

1. **Social Media Dashboard:** Create a Java application that integrates with social media APIs to provide analytics and insights for users' social media profiles.
2. **Online Banking System:** Design a secure online banking system with features like account management, transaction history, and fund transfers.
3. **Weather Forecasting App:** Develop a Java-based weather forecasting application that retrieves data from weather APIs and provides forecasts and weather-related information.
4. **Employee Management System:** Build an employee management system for HR departments to manage employee records, attendance, and performance evaluations.
5. **Online Quiz Platform:** Create an online quiz platform where instructors can create quizzes, and students can take quizzes and receive instant feedback.



DATA SCIENCE

1. **Recommendation System:** Create a recommendation engine that suggests products, movies, or music based on user behavior and preferences, using techniques like collaborative filtering.
2. **Natural Language Processing (NLP) for Sentiment Analysis:** Develop a sentiment analysis tool that can classify customer reviews or social media comments as positive, negative, or neutral, using NLP techniques.
3. **Image Classification for Healthcare:** Build an image classification model to identify diseases or abnormalities in medical images, such as X-rays or MRIs.
4. **Time Series Forecasting:** Work on time series data (e.g., stock prices, weather data) to develop forecasting models that predict future trends and patterns.
5. **Fraud Detection System:** Create a fraud detection system that can analyze transaction data and identify potentially fraudulent activities or transactions.



MACHINE LEARNING

1. **Image Classification with Convolutional Neural Networks (CNN):** Develop a CNN model to classify images in a dataset, such as the CIFAR-10 or ImageNet dataset, and explore techniques for model optimization and performance improvement.
2. **Natural Language Processing (NLP) for Text Classification:** Create a text classification model for sentiment analysis, spam detection, or topic categorization using NLP techniques and libraries like NLTK or spaCy.
3. **Object Detection and Tracking:** Create a model that can detect and track objects in real-time video feeds, which can be applied to surveillance, autonomous vehicles, or robotics.
4. **Healthcare Predictive Modeling:** Use healthcare datasets to build predictive models for disease diagnosis, patient readmission rates, or treatment outcomes, aiding healthcare providers in decision-making.
5. **AutoML and Hyperparameter Optimization:** Build a tool that automates the machine learning pipeline, including feature selection, model selection, and hyperparameter tuning, to streamline model development.



PYTHON

1. **Web Scraping and Data Analysis:** Create a Python web scraping tool to collect data from websites and analyze it for trends or insights. For instance, you could scrape news articles to analyze sentiment over time.
2. **E-commerce Price Tracker:** Develop a price tracking application that monitors product prices on e-commerce websites and sends price drop notifications to users via email or SMS.
3. **Personal Finance Manager:** Build a personal finance manager that helps users track their expenses, income, and budgeting, providing visualizations and recommendations.
4. **Chatbot Development:** Design a conversational chatbot using Python and natural language processing libraries (e.g., NLTK or spaCy) to answer user queries or assist with tasks.
5. **Image Processing with OpenCV:** Develop an image processing application using the OpenCV library to perform tasks like image enhancement, object detection, or facial recognition.



FULL-STACK DEVELOPMENT

1. **E-commerce Website:** Develop a full-stack e-commerce website that includes features like user authentication, product catalog, shopping cart, payment processing, and order management.
2. **Content Management System (CMS):** Create a custom CMS for managing website content, including text, images, and videos, with user roles and permissions.
3. **Social Media Platform:** Build a full-stack social media platform with user profiles, friend requests, posts, comments, likes, and a news feed.
4. **Job Board Application:** Develop a job board platform where employers can post job listings, and job seekers can create profiles, search for jobs, and apply.
5. **Real-Time Chat Application:** Create a real-time chat application with features like private messaging, group chats, file sharing, and online/offline status indicators.



WEB DEVELOPMENT

1. **Portfolio Website:** Create a personal portfolio website to showcase your work, skills, and projects using HTML, CSS, and JavaScript.
2. **Blog Website:** Build a blog website with features for creating, editing, and publishing articles, including a user-friendly admin dashboard.
3. **Event Registration Website:** Design a web application for event registration, allowing users to view event details, register, and receive confirmation emails.
4. **Recipe Sharing Website:** Build a platform where users can share and discover recipes, complete with user profiles, recipe submissions, and search functionality.
5. **Real Estate Listings Website:** Create a real estate listings website that allows users to search for properties, view property details, and contact real estate agents.



FRONT-END DEVELOPMENT

1. **Interactive Landing Page:** Create an engaging and interactive landing page for a product or service, incorporating animations, transitions, and user engagement elements.
2. **E-commerce Product Catalog:** Build a front-end product catalog for an e-commerce website, featuring responsive design, product filtering, and dynamic product displays.
3. **Weather Forecast Widget:** Develop a weather forecast widget that fetches data from a weather API and displays it in a visually appealing and informative way.
4. **Online Portfolio for an Artist or Photographer:** Create a visually stunning online portfolio for an artist or photographer, showcasing their work using responsive design and image galleries.
5. **News Feed Reader:** Create a web-based news feed reader that allows users to subscribe to and read articles from their favorite news sources.



AWS CLOUD

1. **Serverless Chat Application:** Build a real-time chat application using AWS Lambda for serverless compute, Amazon API Gateway for endpoints, and Amazon DynamoDB for data storage.
2. **Scalable Auto-Scaling Web Application:** Create a web application that automatically scales based on traffic using Amazon Elastic Load Balancing (ELB), Auto Scaling, and Amazon EC2 instances.
3. **Data Analysis and Visualization with AWS Lambda and AWS Glue:** Set up a data pipeline using AWS Glue for ETL (Extract, Transform, Load) and AWS Lambda for data processing, then visualize the results using Amazon QuickSight.
4. **AWS IoT-based Smart Home System:** Design a smart home system using AWS IoT Core to connect and manage IoT devices, such as lights, thermostats, and security cameras.
5. **Serverless Image Processing:** Create an image processing service using AWS Lambda and Amazon S3, which automatically resizes, compresses, or watermark images uploaded to an S3 bucket.



ANDROID

1. **To-Do List App:** Create a to-do list app that allows users to add, edit, and organize tasks, set deadlines, and receive reminders.
2. **Weather Forecast App:** Develop a weather forecast app that fetches weather data from an API and displays it in a user-friendly format, including current conditions and forecasts.
3. **Expense Tracker:** Build an expense tracker app that enables users to input and categorize expenses, view spending trends, and set budget goals.
4. **Recipe Finder and Cookbook App:** Create an app that lets users search for recipes, save their favorite recipes, and create a digital cookbook with personalized notes and ratings.
5. **Fitness Tracking App:** Develop a fitness tracking app that tracks users' workouts, records data like calories burned and distance covered, and provides analytics and progress tracking.



CYBERSECURITY

1. **Vulnerability Assessment and Penetration Testing (VAPT):** Conduct vulnerability assessments and penetration tests on a network or web application to identify and remediate security vulnerabilities.
2. **Security Awareness Training Program:** Develop a security awareness training program for employees, covering topics such as phishing, social engineering, and safe online practices.
3. **Incident Response Plan Development:** Create an incident response plan and conduct tabletop exercises to simulate and prepare for cybersecurity incidents.
4. **Network Security Monitoring (NSM):** Set up a network security monitoring system to detect and respond to suspicious network traffic and intrusions.
5. **Secure Code Review:** Perform secure code reviews on software applications to identify and mitigate potential security flaws.



DATA ANALYTICS

1. **Customer Segmentation Analysis:** Analyze customer data to segment customers based on behavior, demographics, and preferences, providing insights for targeted marketing strategies.
2. **Sales and Revenue Forecasting:** Develop predictive models to forecast sales and revenue, considering historical data, market trends, and external factors.
3. **Market Basket Analysis:** Analyze transaction data to identify patterns and associations between products, enabling recommendations and optimizing product placement.
4. **Sentiment Analysis for Social Media:** Perform sentiment analysis on social media data to gauge public opinion, monitor brand reputation, and track sentiment trends.
5. **Data Visualization Dashboard:** Create interactive data visualization dashboards using tools like Tableau or Power BI to provide stakeholders with insights and trends.



ARTIFICIAL INTELLIGENCE

1. **Deepfake Detection:** Build a deepfake detection system that identifies manipulated or synthetic media content, including images and videos.
2. **AI for Natural Disaster Prediction:** Develop models that use AI and machine learning to predict natural disasters such as earthquakes, hurricanes, or wildfires.
3. **Natural Language Processing (NLP) Chatbot:** Create a conversational AI chatbot that can understand and respond to user queries in natural language, incorporating NLP techniques.
4. **Predictive Analytics for Business:** Build predictive models to forecast sales, customer churn, or other business metrics using machine learning algorithms and historical data.
5. **Reinforcement Learning Game Agent:** Develop a reinforcement learning agent capable of playing and mastering games like chess, Go, or video games.



FLUTTER

1. **E-commerce Mobile App:** Create a fully functional e-commerce mobile app with features like product listings, user authentication, shopping cart, and payment processing.
2. **Social Media App:** Develop a social media app with user profiles, posts, likes, comments, and a real-time feed using Flutter and Firebase for backend services.
3. **Travel Booking App:** Build a travel booking app that allows users to search for flights, hotels, and travel packages, make reservations, and manage bookings.
4. **Weather Forecast App:** Create a weather forecast app that fetches data from a weather API and presents it in a user-friendly and visually appealing manner.
5. **Task Management App:** Design a task management app for creating, editing, and organizing tasks, setting deadlines, and receiving reminders.



PHP

1. **Forum or Community Platform:** Build a forum or community platform where users can create accounts, post discussions, and interact with other members.
2. **Blog Platform:** Create a blogging platform with features for users to create and manage blogs, write and publish articles, and customize their blog's appearance.
3. **Online Booking System:** Build an online booking system for services such as appointments, reservations, or event bookings, with scheduling and payment functionality.
4. **Hotel Reservation System:** Create a hotel reservation system with features for users to search for hotels, view availability, make reservations, and manage bookings.
5. **Task Management Application:** Create a task management application for users to create, assign, and track tasks, with notifications and progress monitoring.



ANGULAR JS

1. **Social Media Dashboard:** Build a social media dashboard that aggregates and displays social media posts and engagement metrics from various platforms.
2. **Real-Time Chat Application:** Develop a real-time chat application using AngularJS and WebSockets to enable users to exchange messages and media files.
3. **Task Management System:** Design a task management system where users can create, assign, and track tasks, set priorities, and receive notifications.
4. **Online Learning Management System (LMS):** Develop an LMS for hosting and managing online courses, including user registration, content creation, and progress tracking.
5. **Weather Forecast Application:** Build a weather forecast app that fetches weather data from an API and displays it in a user-friendly and visually appealing way.



NODE JS

1. **RESTful API for a Blog Platform:** Create a RESTful API for a blog platform with features for creating, editing, and retrieving blog posts, user authentication, and comment functionality.
2. **Real-Time Chat Application:** Build a real-time chat application using Node.js, WebSocket, and libraries like Socket.io to enable real-time messaging and group chats.
3. **Authentication Service:** Create a standalone authentication service using Node.js and Passport.js to enable user authentication and authorization for multiple applications.
4. **Content Management System (CMS):** Build a custom CMS backend for managing website content, including text, images, and videos, with user roles and permissions.
5. **Social Media Analytics Dashboard:** Create a dashboard that collects and analyzes social media data from various platforms, providing insights into user engagement and trends.



.NET

1. **Inventory Management System:** Build an inventory management system that allows users to track and manage stock levels, order processing, and inventory reports.
2. **Employee Leave Management Application:** Create an employee leave management application with features for leave requests, approvals, and leave balance tracking.
3. **Task Management Application:** Design a task management application with features for task creation, assignment, priority setting, and progress tracking.
4. **Hospital Management System:** Build a comprehensive hospital management system that includes patient records, appointment scheduling, billing, and doctor-patient communication.
5. **Event Ticketing Platform:** Develop an event ticketing platform with features for event creation, ticket sales, seat selection, and event attendee management.

