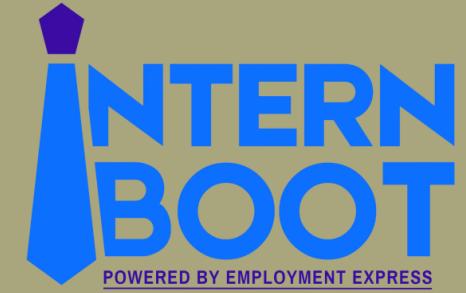# INTERN BOOT
POWERED BY EMPLOYMENT EXPRESS

INTERNSHIP PROGRAMME

- **Internboot**, powered by **Employment Express**, is a next-generation internship and career development platform dedicated to bridging the gap between education and industry. With a mission to make internships accessible, inclusive, and impactful, Internboot provides students and young professionals with real-world experience, skill development, and verified certifications that strengthen employability.

- As an initiative of **Employment Express**—a reputed organization with a strong presence across India and the Asia-Pacific (APAC) region—Internboot leverages years of expertise in skill development, job placement, and corporate partnerships. Employment Express has already transformed thousands of careers through large-scale government collaborations, CSR projects, and industry-academia initiatives, making it a trusted name in workforce empowerment.

- Together, **Internboot and Employment Express** have built a robust ecosystem of **650+ corporate partners,** including Oracle, TCS, Infosys, and IBM, offering internships across 15+ high-demand domains such as Software Development, Data Science, Digital Marketing, Cybersecurity, and Finance. With joint certifications from universities, government bodies, and industry leaders, Internboot ensures that every intern graduates with skills, credibility, and career-ready experience.

- By combining the innovative platform of Internboot with the proven impact of Employment Express, we are shaping a future where **every student, regardless of background, can access opportunities, gain experience, and succeed in the professional world**.

INTERN BOOT
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About us

Interns Achievements

Completion Certificate:
Awarded after successful completion of your tenure of internship.

Recommendation letter:
It will be provided to interns who performed really well in the tasks allotted.

Workshops/Guidance:
Will set the opportunity to work under supervision and provide chances to attend several interactive sessions

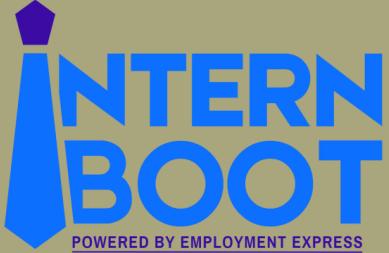**Network Opportunity:**
A multicultural and diverse working environment is available for interns.

DETAIL INFORMATION

UNPAID INTERNSHIP:

This is an unpaid internship of your opted tenure during which you'll be trained, mentored, and observed for future roles. You'll be given opportunities to increase your exposure within the team and will also learn from the mentors.
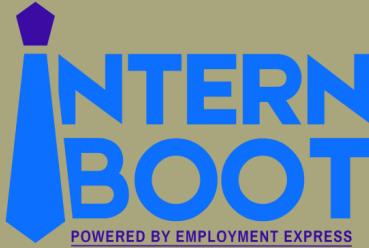
FLEXIBLE WORKING HOURS:

During the course of the internship, you will be expected to work from home with the flexibility to manage your time. The tasks assigned are easy and can be finished in your spare time.

OWN COMPUTERS AND INTERNET:

You'll use your own computers with internet connections and coordinate with your team members through WhatsApp.

Guidance and Support at Every Step

SCHEDULED CALLS AND MEETINGS:

- Regular contact with trainers & team members via live online sessions.

MENTOR STAND:

- Our mentors are there to guide and support you at any time. You can reach the mentors through email or WhatsApp.

ON DEMAND SUPPORT:

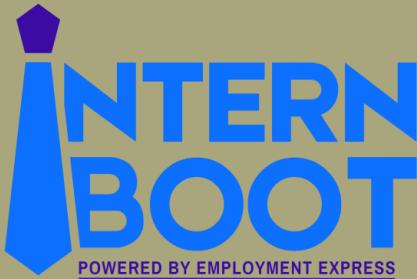- If you feel you can mail us for help. We will guide you to the correct resources.

- **SUPPORT**: https://www.internboot.com/ / 9319723916 / info@internboot.com

Important Points

Mandatory Task

- Create a Repo on **GitHub** with the name of **Internboot**.

- You have to upload the file there after working on the project assigned to you.

- You have to submit the file in Excel or G-Sheet and paste the link (GitHub Repo.) there with the topic name.

- You have to submit a **Recorded video** on **LinkedIn** and attach the link to the Excel/G-sheet.

- You have to tag **Internboot and E2V** (Employment Express) when you are uploading the video on LinkedIn with describing what you have done and how you cleaned and got the output.

- You also have to mention storytelling, what are you doing while creating the video

- Project Submission will be on- **projectsubmission@internboot.com**

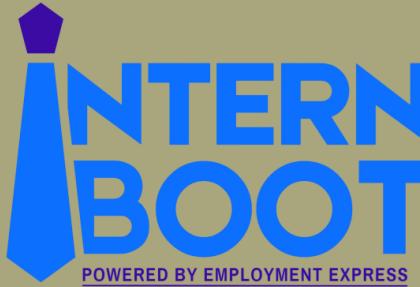- **And keep Jitender@internboot.com in CC**

TASK INFORMATION

Minimum requirements to be eligible to get an internship completion certificate:

LINKEDIN PROFILE IMPROVEMENT

- Add Intern at Internboot in your LinkedIn profile title and add it as your current work experience.

- . Share all your achievements that you have got from us -

- (Offer Letter, Completion Certificate), also tag @Internboot and use #internboot in such posts.

- Improve your professional profile on LinkedIn. Share your completed task on

- LinkedIn. It is MANDATORY FOR ALL

- Follow us on LinkedIn:

- https://www.linkedin.com/showcase/internboot/

- **MANDATORY TASKS FOR INTERNS:**

  Complete AT LEAST 3 TASKS from any level as per your wish.

- **ADDITIONAL TASKS FOR (optional):**

- You can do as many tasks as you want for learning

- **Last submission date :- 22/11/2015**

DATA ANALYTICS

- BEGINNER LEVEL

- INTERMEDIATE LEVEL

- ADVANCE LEVEL

BEGINNER LEVEL TASK (PART 01)

Task 1: Exploratory Sales Analysis

- **Description**: Perform exploratory data analysis (EDA) on sales data to understand trends, seasonality, and missing values.

Features:

- Load and clean the dataset with Pandas.

- Generate descriptive statistics (mean, median, mode).

- Visualize sales over time using line and bar charts.

- **Tech Stack**: Python, Pandas, Matplotlib/Seaborn.

- **Learning Outcomes**: Learn data cleaning, basic visualization, and summary statistics.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

BEGINNER LEVEL TASK (PART 02)

- **Task 2: <u>Simple Sales Forecast with Moving Average</u>**

- **<u>Description</u>**: Implement a basic forecasting method using moving averages.

  <u>Features</u>:

- Compute rolling averages for weekly and monthly sales.

- Compare forecasts vs. actual sales.

- Plot trend lines.

- **<u>Tech Stack</u>**: Python, Pandas.

- **<u>Learning Outcomes</u>**: Understand time windows, moving averages, and trend smoothing.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

BEGINNER LEVEL TASK (PART 03)

- **Task 3: <u>Linear Regression for Sales Prediction</u>**

- **<u>Description</u>**: Build a simple regression model to predict future sales based on time and promotions.

  <u>Features</u>:

- Select features like date, promotions, and holidays.

- Train/Test split of the dataset.

- Build a Linear Regression model.

- **<u>Tech Stack</u>**: Python, Pandas, Scikit-learn.

- **<u>Learning Outcomes</u>**: Gain first hands-on experience with regression modeling.

- **DATA SET LINK –** https://www.kaggle.com/competitions/store-sales-time-series-forecasting

INTERMEDIATE LEVEL TASK (PART 1)

- **Task 1: Feature Engineering for Sales Data**

- **Description**: Create new features to improve prediction accuracy.

  Features:

- Extract day, month, year, and weekday from date.

- Create holiday/weekend flags.

- Add lag features (previous week/month sales).

- **Tech Stack**: Python, Pandas.

- **Learning Outcomes**: Learn how feature engineering impacts regression models.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

INTERMEDIATE LEVEL TASK (PART 2)

- **Task 2: Multiple Regression Model**

- **Description**: Build a multiple regression model using all engineered features.

  Features:

- Use variables like promotions, holidays, and store type.

- Train a multiple regression model.

- Evaluate using RMSE & MAE.

- **Tech Stack**: Python, Pandas, Scikit-learn.

- **Learning Outcomes**: Understand multiple regression and evaluation metrics.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

INTERMEDIATE LEVEL TASK (PART 3)

- **Task 3: <u>Time Series Regression (Trend + Seasonality)</u>**

- **Description**: Extend regression to capture time-based patterns.

  Features:

- Model trend using polynomial regression.

- Capture seasonality with month/holiday indicators.

- Compare performance with baseline linear regression.

- **Tech Stack**: Python, Pandas, Scikit-learn.

- **Learning Outcomes**: Learn regression adaptation for time-series data.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

ADVANCED LEVEL TASK (PART 1)

- **Task 1:** **Regularized Regression (Ridge/Lasso)**

- **Description**: Apply Ridge and Lasso regression to improve forecasting.

  Features:

- Implement Ridge and Lasso regression.

- Compare with Linear/Multiple regression.

- Identify important features.

- **Tech Stack**: Python, Pandas, Scikit-learn.

- **Learning Outcomes**: Learn regularization to avoid overfitting.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting
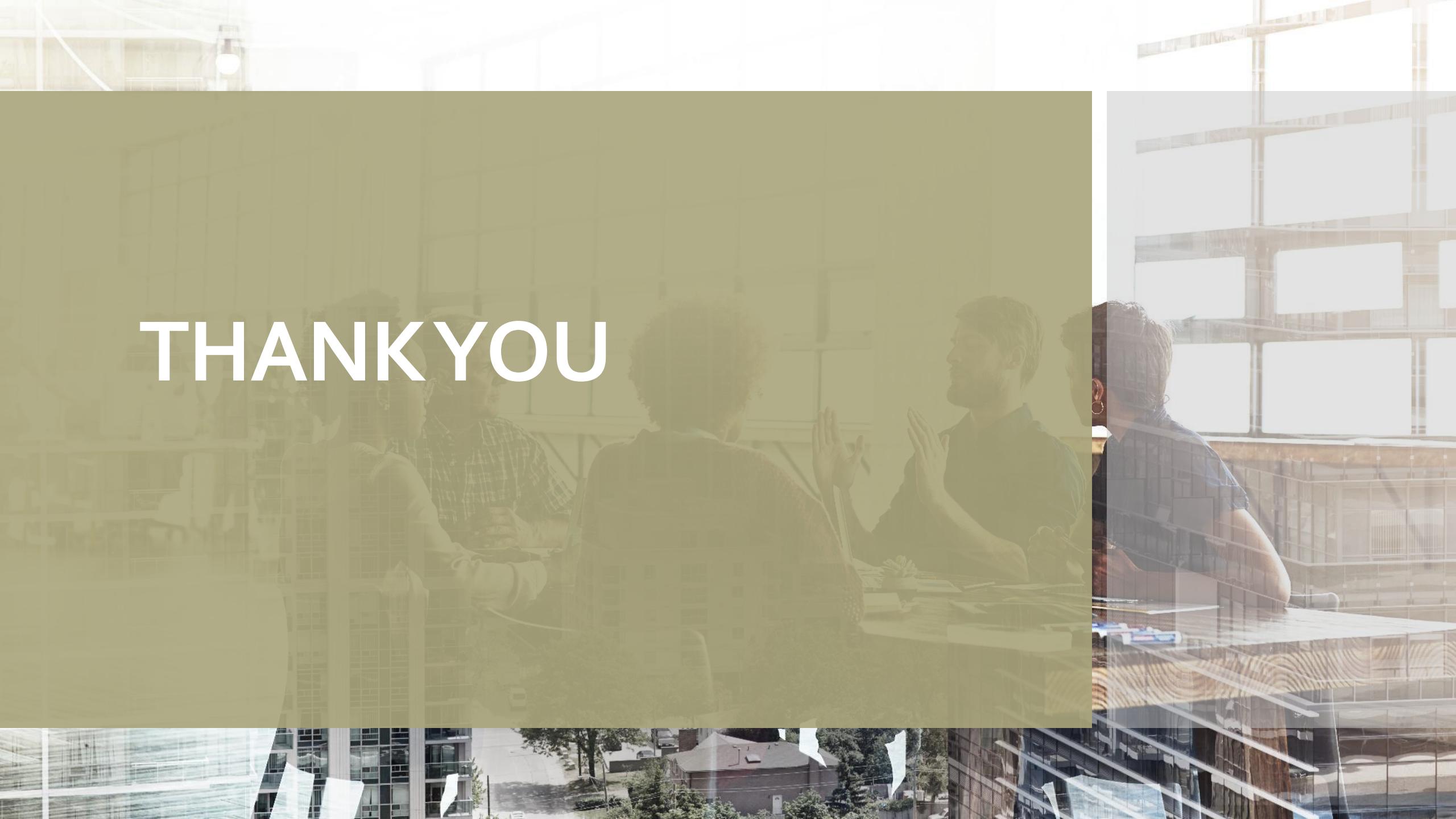
ADVANCED LEVEL TASK (PART 2)

- **Task 2: Regression with External Data**

- **Description**: Enhance forecasts using additional external datasets. **Features**:

- Merge dataset with weather/economic data.

- Train a regression model with new features.

- Measure improvement in accuracy.

- **Tech Stack**: Python, Pandas, Scikit-learn.

- **Learning Outcomes**: Learn how external factors improve prediction power.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

ADVANCED LEVEL TASK (PART 3)

- **Task 3:** **Model Deployment (Flask/Dashboard)**

- **Description**: Deploy regression model as a simple web app/dashboard.
  Features:

- Build a Flask app or a Streamlit dashboard.

- User inputs store/date → Predict sales.

- Display actual vs. predicted sales charts.

- **Tech Stack**: Python, Pandas, Scikit-learn, Flask/Streamlit.

- **Learning Outcomes**: Learn how to deploy ML models for real-world use.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

MORE ADVANCED LEVEL (OPTIONAL)

- **Task Idea**:

  Build a **hybrid regression system** that decomposes sales data into **Trend + Seasonality + Residuals**, and models each separately using different regression methods.

- **Steps**:

- **Preprocess Data** → Clean, encode, create lag features.

- **Decompose Time-Series** → Extract trend, seasonality, residuals.

- **Model Each Component** →

    - Trend → Ridge/Lasso Regression
    - Seasonality → Polynomial Regression / Fourier Features
    - Residuals → XGBoost/LightGBM

- **Combine Predictions** → Final Forecast = Trend + Seasonality + Residuals.

- **Validate** → Use Time Series Split + RMSE/MAE.

- **Outcome**:

  A research-level model that blends **statistical + ML regression** for more accurate long-term sales forecasts.

- **DATA SET LINK** – https://www.kaggle.com/competitions/store-sales-time-series-forecasting

THANKYOU