# Flow Diagram:

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| **Scrape Dataset** |

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| **Data Cleaning - Remove HTML Tags by Beautiful Soup - Tokenization and Lemmatization - Remove Unwanted Punctuation** |

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| **Feature Extraction** |

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| **Label Encoding** |

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| **Train-Test Split** |

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| **Model Building - Heuristic Approach (multiple ML algorithms) - TF-IDF (multiple ML algorithms) - Count Vectorization (multiple ML algorithms) - Hybrid TF-IDF + CV (multiple ML algorithms) - FFNN - CNN - RNN - LSTM** |

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| **Dump Best Model** |

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| **Deploy via Streamlit UI** |