Shivam Singh

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Github: https://github.com/Survivor360

Education

VIT Bhopal University, Bhopal, B.Tech in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning · Sept 2022 – ongoing
- CGPA: 8.59/10

DAV Calderys Public School, Katni, Madhya Pradesh , 12th standard · June 2022
- Percentage: 83.8%

DAV ACC Public School, Katni, Madhya Pradesh , 10th standard · July 2020
- Percentage: 86.6%

Technical Skills

- Languages: Java, Python, Kotlin, SQL
- Mobile Development: Android Studio, Jetpack Compose, Firebase, Broadcast Receivers, NFC
- Machine Learning: Scikit-learn, TensorFlow, CNN, LSTM, Transformers, GenAI
- Tools APIs: Git, REST APIs, JavaMail, Web Scraping (BeautifulSoup, Requests)

Languages: English, Hindi

Projects

Text Classification of Articles in Bhojpuri · Jun 2024 – Sep 2024
- Collected and cleaned over 5,113 Bhojpuri news articles through custom web scraping scripts targeting regional portals.
- Engineered three dataset variants: (1) raw unbalanced(with 5113 points), (2) class-balanced (equal instances of Politics, Sports, Crime with 1000 points), and (3) synthetically augmented using oversampling and repetition (with 9156 points).
- Fine-tuned transformer-based multilingual LLMs, including LLaMA 3.1 (8B) and mBERT, achieving accuracy gains of up to 78% and 93% on balanced datasets respectively .
- Benchmarked models such as CNNs, BiLSTMs, BERT, and GPT for headline-only inputs across different dataset variants.
- Demonstrated significant performance variance when handling low-resource Indic languages, contributing novel findings to resource-scarce NLP tasks.
- Evaluated a cross-input method where CNN and BERT models were trained on full article text and tested on headline-only inputs, achieving up to 73% and 68% classification accuracy despite reduced context.
- Technology: Python, Web Scraping, Transformers (HuggingFace), LLaMA 3.1, BERT, GPT, CNN, BiLSTM, Scikit-learn, NumPy, Pandas

OTP Router – Auto OTP Forwarder Android App · Nov 2024
- Built and deployed an Android app capable of auto-forwarding OTPs from user-specified senders (e.g., "EKHANIJ") to a designated email address.
- Achieved near real-time SMS capture and routing (<2s average latency) using BroadcastReceivers and Android

Telephony API on Android 10+.

- Integrated background email dispatch using Kotlin Coroutines and JavaMail API for secure, encrypted delivery.
- Designed Jetpack Compose-based UI for effortless onboarding and configuration; tested across 10+ devices with 100% SMS parsing success.
- Optimized app performance for low memory usage and battery efficiency using lifecycle-aware components.
- Technology: Kotlin, Jetpack Compose, BroadcastReceiver, Android Telephony, Coroutines, JavaMail

Events - Campus Club Event Platform   May 2025 – Present
- Designed and launched a student engagement app connecting college clubs with attendees via real-time event updates.
- Integrated NFC-based pass generation and scanning, push notifications, and a dynamic home feed for upcoming events.
- Delivered seamless full-stack development using Jetpack Compose and Firebase.
- Technology: Kotlin, Jetpack Compose, Firebase, NFC, FCM (Firebase Cloud Messaging)

Co-Curriculars

- Earned 5-Star Rating in Problem Solving and Python on HackerRank.
- Regular participant in coding contests and open-source contributions.

Courses and Achievements

- Android Jetpack Compose: The Comprehensive Bootcamp — Udemy
- Machine Learning A-Z: AI, Python & R — Udemy
- Applied Machine Learning in Python — Coursera (University of Michigan)
- AWS Cloud Foundations Badge — AWS Academy
- AWS Cloud Architect Badge — AWS Academy
- Problem Solving (Intermediate) — HackerRank