Bajaj Finserv Health Limited – DATATHON

(Where Individual Brilliance Meets Data)

Start Date: 28th Nov'25 | 12:00 PM
End Date: 30th Nov'25 | 12:00 PM
Opportunity: Final Placement Offer
Eligibility: Class of 2026 **(Final Year Students) | Format:** Individual Datathon
Degree: B.Tech & B. Tech + M.Tech **(Integrated) | All streams are eligible for the Datathon**
Registration Link : https://www.surveymonkey.com/r/datathon_25

About Bajaj Finserv Health | Background and Purpose:
Bajaj Finserv Health and affiliate companies are in the business of Health Insurance Claims processing OPD (out-patient) & IPD (in-patient) . We process millions of bills (Invoices) a month and have to ensure we 'pay right'.

These bills are received as scanned photos and pdfs (running into 30-40 pages). Bills have to be reviewed by processing agents and appropriate amounts have to be extracted to be entered into the system. We are digitizing/automating this process of bill data extraction - extracting the line-item data and bill totals. The problem statement below is in-line with **"Improving' the accuracy of the bill extraction process".**

Problem statement:
You will be given a set of bills (invoices) with multiple pages (training data); you need to design and develop data extraction/summarization models that will 'extract the line item details from these bills and also provide 'individual line item amount', 'Sub-total' and 'Final Total' of the bill amounts extracted (sub-totals will be required only where they exist in the bill). 'Final Total' will be sum (of all individual line items in the bills) without double-counting.

It's important to ensure that, you **don't miss out on any line-item** entries and at the same time **don't double count any entries**. The closer your 'Total AI extracted amounts' is equal to the 'Actual Bill Total' -the better your accuracy.

Tools:
You are free to use any LLM models or services (like OCR) available in the market. Programming languages such as Python, Java can be used to create APIs.
(Any cost incurred for the usage of any paid tools should be borne by the students)

Input provided (to all teams)
Training data consisting of bills with varying degrees of formats (simple to more complex/multilingual/handwritten etc.); A sample of outputs for these training data will also be provided

Deliverable:
- Models that perform these extractions with high accuracy (to be submitted in a private Github repo)
- An API that will accept a document(s) with multiple pages and provide output in expected JSON format. **Link to Download the JSON Format.**
- This API will be used by our teams to score your models and rank you on the leaderboard; any updates to the problem statement and the API structure will be published on the below link. https://datathon.healthrx.co.in/#problem-statement

- A pitch deck – that represents your overall architecture and 'tech/model stack < 2-3 pages>; Call out your differentiators. **Link to Download the Pitch deck Format**.

Differentiators:

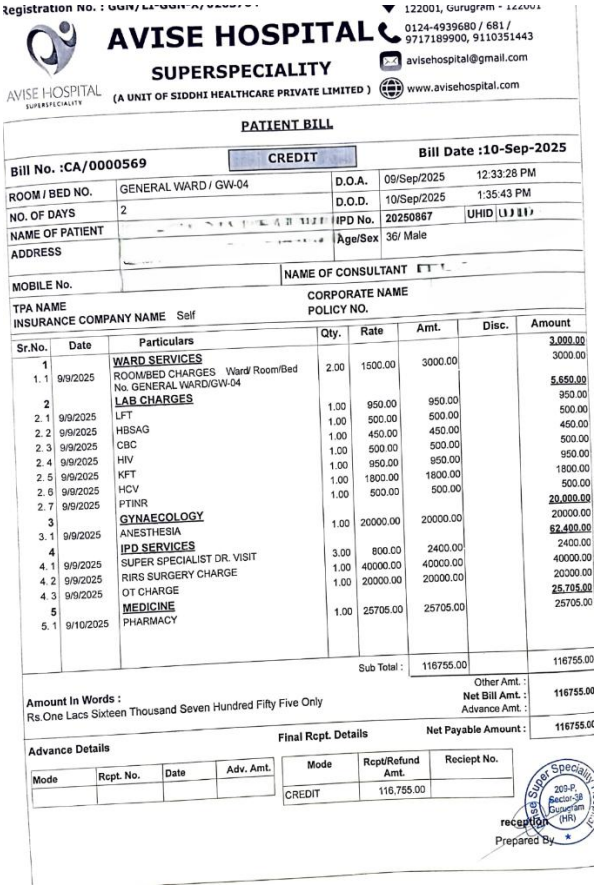
- For some of the documents we provide you, you will require pre-processing to improve 'extraction accuracy', please call out any 'pre-processing' you have used
- Some of the documents we provide will also have elements of 'fraud', e.g. inconsistent 'fonts types', 'overwriting with whitener' etc. if you are able to catch these – this is also your differentiator

Criteria for Interview Selection

- **Overall score in the leader board**
- **Pitch deck and architecture used**
- **Differentiators**
- **Latency of APIs**
- **Github code review**

***Its important that everyone solves this assignment individually; Anyone we suspect to have plagiarized the solutions will be automatically disqualified ***

Appendix 1:
Illustration of sample documents we will provide for training and illustration of output from these documents (we will give the exact json structure you need to create)



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www.avisehospital.com

PATIENT BILL

Bill No. :CA/0000569 | CREDIT | Bill Date :10-Sep-2025

ROOM / BED NO.	GENERAL WARD / GW-04	D.O.A.	09/Sep/2025	12:33:28 PM	
NO. OF DAYS	2	D.O.D.	10/Sep/2025	1:35:43 PM	
NAME OF PATIENT		IPD No.	20250867	UHID	
ADDRESS		Age/Sex	36/ Male		
MOBILE No.		NAME OF CONSULTANT			
TPA NAME		CORPORATE NAME			
INSURANCE COMPANY NAME	Self	POLICY NO.			

Sr.No.	Date	Particulars	Qty.	Rate	Amt.	Disc.	Amount
1		WARD SERVICES					3,000.00
1. 1	9/9/2025	ROOM/BED CHARGES Ward/ Room/Bed No. GENERAL WARD/GW-04	2.00	1500.00	3000.00		3000.00
2		LAB CHARGES					5,650.00
2. 1	9/9/2025	LFT	1.00	950.00	950.00		950.00
2. 2	9/9/2025	HBSAG	1.00	500.00	500.00		500.00
2. 3	9/9/2025	CBC	1.00	450.00	450.00		450.00
2. 4	9/9/2025	HIV	1.00	500.00	500.00		500.00
2. 5	9/9/2025	KFT	1.00	950.00	950.00		950.00
2. 6	9/9/2025	HCV	1.00	1800.00	1800.00		1800.00
2. 7	9/9/2025	PTINR	1.00	500.00	500.00		500.00
3		GYNAECOLOGY					20,000.00
3. 1	9/9/2025	ANESTHESIA	1.00	20000.00	20000.00		20000.00
4		IPD SERVICES					62,400.00
4. 1	9/9/2025	SUPER SPECIALIST DR. VISIT	3.00	800.00	2400.00		2400.00
4. 2	9/9/2025	RIRS SURGERY CHARGE	1.00	40000.00	40000.00		40000.00
4. 3	9/9/2025	OT CHARGE	1.00	20000.00	20000.00		20000.00
5		MEDICINE					25,705.00
5. 1	9/10/2025	PHARMACY	1.00	25705.00	25705.00		25705.00
				Sub Total :	116755.00		116755.00

Amount In Words :
Rs.One Lacs Sixteen Thousand Seven Hundred Fifty Five Only

Other Amt. :
Net Bill Amt. : 116755.00
Advance Amt. :
Net Payable Amount : 116755.00

Advance Details

Mode	Rcpt. No.	Date	Adv. Amt.

Final Rcpt. Details

Mode	Rcpt/Refund Amt.	Reciept No.
CREDIT	116,755.00	

reception
Prepared By

Note: Leaderboard scoring and final assessments are internal processes. BFHL reserves full rights to modify or update them as deemed necessary.