

30<sup>th</sup> December 2024

To,  
The Head of Department,  
Computer Science and Engineering,  
City University, Dhaka, Bangladesh.

**Subject: Request for Permission to Conduct Data Validation at Uttara Adhunik Medical College.**

Dear Sir,

I am Sohab Akund Polak (Student ID: 2035502003), writing on behalf of my thesis group, currently pursuing a Bachelor's degree in Computer Science and Engineering at the Department of Computer Science and Engineering, City University, Dhaka, Bangladesh. We are undertaking our thesis project titled "Application for Identifying Patient Disease Symptoms from Speech-Textual Model Using Machine Learning Algorithms," under the supervision of Shah Jafor Sadeek Quaderi, Lecturer in the Department of CSE, City University.

As part of our research, we have developed a framework that has already achieved a benchmark output, demonstrating its potential for disease symptom identification. Our dataset contains 125 textual phrases corresponding to 25 different diseases, and we aim to further refine the model's accuracy. In order to ensure the quality and reliability of our dataset, we require expert validation. To this end, we have approached Dr. Matia Ahmed, Professor of Physiology at Uttara Adhunik Medical College, Uttara, Dhaka. Dr. Ahmed has kindly agreed to assist in reviewing our dataset; however she has requested a formal departmental clearance for this collaboration.


We firmly believe that the integration of expert medical insights will significantly enhance the robustness and performance of our model, particularly in accurately predicting maternity risks. Therefore, we respectfully request your permission to proceed with this data collection task at Uttara Adhunik Medical College.


We are confident that this collaboration will greatly contribute to the success of our research and the further development of this application. We respectfully request your kind approval to proceed with this data collection task at Uttara Adhunik Medical College. Your permission will greatly support the advancement of our research, and we are hopeful for a favorable response.

Respectfully,

Sohab Akund Polak (ID: 2035502003)

Rocky Hossain (ID: 1935202055)

  
30/12/24  
Engr S M Anisur Rahman  
Associate Professor  
Department of CSE  
Head of the Department, CSE  
City University, Savar, Dhaka

  
30-12-24  
Shah Jafor Sadeek Quaderi  
Lecturer  
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স্থায়ী সনদ প্রাপ্ত বিশ্ববিদ্যালয়

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**Phrase: Context regarding disease.**

**Prompt: Suspected disease**

Phrase	Prompt	Remarks
I struggle with finding a skincare routine that works for my acne-prone skin.	Acne	OK
I can't sit for too long without feeling sharp pain in my lower back	Back pain	OK
I feel like my vision is swimming in front of me and everything looks distorted	Blurry vision	OK
I feel a constant fatigue in my body, like I haven't slept in days	Body feels weak	OK
My throat feels scratchy, and I keep coughing every time I speak	Cough	OK
My ear feels clogged, and it's painful when I chew	Ear ache	OK
I feel lost and empty after losing someone important to me	Emotional pain	OK
I feel a constant cold sensation even when I am near the heater	Feeling cold	OK
I feel dizzy whenever I stand up too fast in the morning	Feeling dizzy	OK
After a long walk, I feel pain on the top of my foot	Foot ache	/Injured
Every time I shower, I notice more hair in the drain than usual	Hair falling out	OK
I feel out of breath even when I'm sitting down for a while	Hard to breath	OK
I often struggle to focus due to the constant pressure in my head.	Head ache	OK
I experience tightness in my chest whenever I exert myself too much.	Heart hurts	OK
My finger was pricked by a thorn, and now it's red, swollen, and painful to touch.	Infected wound	OK
I felt a sharp pain in my wrist after playing badminton for hours.	Injury from sports	OK
I feel sharp pain that radiates through my lower abdomen after eating spicy foods.	Internal pain	OK
My knees feel stiff and ache whenever I try to kneel down.	Joint pain	/Injured /knee
I have intense pain in my knee, especially after long walks.	Knee pain	OK
After intense exercise, my muscles feel sore and stiff.	Muscle pain	OK
Turning my neck feels like a sharp pinching pain that won't go away.	Neck pain	OK
I accidentally stepped on a nail and now I have a deep open wound.	Open wound	OK
My shoulder feels stiff and painful every time I try to move it.	Shoulder pain	OK
Every time it rains, I get hives on my belly and sides.	Skin issue	OK
After eating, I have a burning sensation inside of me.	Stomach ache	OK
I feel frustrated because acne treatments that worked in the past no longer help me.	Acne	OK
Every time I stand up, I feel a stabbing pain shoot through my back	Back pain	OK
My eyes hurt, and I feel a sense of dizziness when my vision is blurry	Blurry vision	OK
I can't seem to recover my strength, no matter how much I sleep	Body feels weak	/Internal
The cough just won't go away, even after using medications	Cough	OK
Every time I blow my nose, I feel a sharp pain in my ear	Ear ache	Rough
Every time I remember the good moments, the emotional pain comes back	Emotional pain	OK
Even in warm weather, I can't escape the feeling of being cold	Feeling cold	OK
I feel like the world is spinning whenever I rise to my feet	Feeling dizzy	OK
My foot started aching after I wore new shoes for the first time	Foot ache	OK
I feel anxious every time I see hair on my pillow in the morning	Hair falling out	OK
Sometimes it feels like I'm breathing through a straw	Hard to breath	OK
The pain in my head is so intense, it feels like my skull is being crushed.	Head ache	OK
The heaviness in my chest increases whenever I try to relax.	Heart hurts	/Internal
I have a small cut on my hand that is now emitting a foul smell and won't heal.	Infected wound	/Injured

Checked & Approved by  
**Dr. Matias Ahmed**  
 MBBS (DU), M.Phil (BSMMU)  
 Department of Physiology  
 Uttaraanchal Medical College



**Phrase: Context regarding disease.**

**Prompt: Suspected disease**

Phrase	Prompt	Remarks
I hit my knee hard on the ground during a hockey match, and it's swollen now.	Injury from sports	/Knee
I feel a stabbing pain inside my abdomen every time I try to sit down.	Internal pain	/Stomach
My fingers are so stiff and painful in the morning that I can hardly move them.	Joint pain	/Injured
My knees feel stiff and ache when I sit for extended periods.	Knee pain	OK
There's a throbbing sensation in my calf muscles after jogging.	Muscle pain	OK
After spending hours on my computer, my neck feels strained and sore.	Neck pain	OK
I cut my finger while using a knife and it's been open for days.	Open wound	OK
I feel a sharp pain in my shoulder whenever I rotate my arm.	Shoulder pain	OK
I need to scratch my skin every minute.	Skin issue	OK
My stomach aches after I drink any soda drink.	Stomach ache	OK
Acne has left scars on my face that make me feel self-conscious.	Acne	OK
After lifting heavy boxes, my back started aching non-stop	Back pain	OK
My vision gets blurry when I read for too long, especially at night	Blurry vision	OK
My body feels drained, and even the smallest tasks take all my energy	Body feels weak	OK
Every morning I wake up with a painful, persistent cough	Cough	OK
I feel a sharp pain in my ear whenever I move my jaw	Ear ache	OK
I can't stop thinking about the pain from my past relationships	Emotional pain	OK
No matter what I do, I always feel cold, even when others are warm	Feeling cold	OK
After sitting for a while, I feel dizzy when I try to get up	Feeling dizzy	OK
My foot hurts a lot after playing sports	Foot ache	/Injured
I'm worried that my hair loss will never stop	Hair falling out	OK
My chest tightens up, and I can barely catch my breath	Hard to breath	/Heart
My head feels like it's about to explode when I think too much.	Head ache	OK
My chest feels like it's being squeezed, making it hard to breathe.	Heart hurts	OK
I accidentally scratched my arm, and now the area is inflamed and leaking fluid.	Infected wound	/Injured
My elbow got injured when I fell during a volleyball game.	Injury from sports	OK
My stomach churns painfully whenever I drink cold beverages.	Internal pain	/Stomach
I experience a sharp pain in my wrist joint every time I try to lift something heavy.	Joint pain	OK
My knee feels swollen and tender when I try to bend it.	Knee pain	OK
I feel pain in my thigh muscles after running yesterday.	Muscle pain	OK
My neck pain worsens when I try to lie down and relax.	Neck pain	OK
The wound on my knee won't close despite trying different treatments.	Open wound	OK
I can't sleep comfortably because of the constant pain in my shoulder.	Shoulder pain	OK
I feel severe itching in the skin with redness.	Skin issue	OK
I often get a stomach ache after I eat and haven't been able to pinpoint.	Stomach ache	OK
Even though I use medication, my acne doesn't seem to improve much.	Acne	OK
I experience stiffness and pain in my back every morning when I wake up	Back pain	/Internal
Sometimes, everything I look at seems foggy, and it's hard to make out details	Blurry vision	OK
Despite resting all night, I still wake up feeling weak and sluggish	Body feels weak	OK
I feel like my throat is constantly dry and irritated, causing me to cough frequently	Cough	OK

Dr. Matia Ahmed  
MBBS (DU), M.M. (BSMMU)  
Professor  
Department of Physiology  
Uttara Chhunik Medical College

Checked & Approved by  
Atmed 11/25

**Phrase: Context regarding disease.**

**Prompt: Suspected disease**

Phrase	Prompt	Remarks
I hear a constant buzzing sound in my ear that never stops	Ear ache	OK
The sadness in my heart feels unbearable, and I can't seem to let go	Emotional pain	OK
My body temperature drops quickly, and I can't seem to warm up	Feeling cold	OK
I experience dizziness when I stand up too quickly after lying down	Feeling dizzy	OK
The bottom of my feet feels sore after walking for a few hours	Foot ache	OK
My hair is thinning and falling out at the same time	Hair falling out	OK
I feel suffocated when the air is heavy around me	Hard to breath	OK
I get severe headaches whenever I read for too long.	Head ache	OK
Every time I experience anxiety, I feel a sharp pain in my chest.	Heart hurts	/Emotional/
My dog scratched my leg, and the wound has become hot and filled with pus.	Infected wound	/Injured
My back started hurting after a long session of practicing gymnastics.	Injury from sports	/Back
There's a constant pressure and discomfort in the upper part of my stomach.	Internal pain	/Stomach
I feel a grinding sensation in my hip joint while walking.	Joint pain	OK
I experience sharp shooting pain in my knee whenever I squat.	Knee pain	OK
My shoulder muscles hurt when I try to lift heavy objects.	Muscle pain	/Shoulder
The stiffness in my neck makes it hard to check over my shoulder while driving.	Neck pain	OK
I got a large cut on my arm after falling and it won't stop bleeding.	Open wound	OK
After a long day of work, my shoulder aches terribly.	Shoulder pain	OK
My skin is very dry and peeling.	Skin issue	OK
I feel a sharp pain in my stomach after eating.	Stomach ache	OK
I notice that my acne flares up when I'm stressed or anxious.	Acne	OK
The constant back pain makes it difficult to sleep at night	Back pain	OK
I often experience double vision when I try to focus on objects far away	Blurry vision	OK
I struggle to get through the day because my body feels like it's giving out	Body feels weak	OK
The constant coughing is making my chest hurt more every day	Cough	OK
The pain in my ear increases when I try to yawn	Ear ache	OK
My emotions feel out of control, and I can't seem to find peace	Emotional pain	OK
I'm always wrapped in blankets but still feel chilled	Feeling cold	OK
Every time I bend down, I feel lightheaded and dizzy	Feeling dizzy	OK
I can't stand for long because my foot aches after standing for too long	Foot ache	OK
I can see more hair falling out than usual when I brush it	Hair falling out	OK
After a little physical activity, I struggle to breathe properly	Hard to breath	OK
Every time I try to sit or stand, the pain in my head becomes unbearable.	Head ache	OK
After a stressful day, my heart aches with a dull, constant pain.	Heart hurts	OK
The blister on my foot burst, and it looks infected with a yellowish discharge.	Infected wound	OK
I think I pulled a muscle in my leg while running a marathon.	Injury from sports	/Muscle
I experience an intense aching sensation deep inside my chest while resting.	Internal pain	/Heart
The pain in my shoulder joints worsens during the night.	Joint pain	/Shoulder
The pain in my knee starts suddenly after jogging for a while.	Knee pain	OK
My muscles burn when I overexert them during workouts.	Muscle pain	OK
I feel a dull ache in my neck that radiates to my shoulders.	Neck pain	/Shoulder
I was cleaning glass and ended up with a large, deep cut on my hand.	Open wound	OK
Every time I lift something, my shoulder pain intensifies.	Shoulder pain	OK
I have dark spots on my skin.	Skin issue	OK
My stomach feels full and upset, and I experience bloating after big meals.	Stomach ache	OK

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