

Science Fair Logbook
2026
Gobind Sarvar School
Calgary, Alberta, Canada



Grade: 10

**Names of the Students: Gurneet Kaur Grewal
& Gurshaan Singh**

Date	Summary of work you have done!
December 10, 2025	<ul style="list-style-type: none"> ● Research Question - We decided our research question: <ul style="list-style-type: none"> ○ "What is the correlation between occupational exposure to specific types of industrial dust (such as silica or asbestos) and the incidence of occupational lung diseases, based on existing scientific literature?"
December 28, 2025	<ul style="list-style-type: none"> ● We changed our question. We will now be doing an experiment project using AI. New Research Question: <ul style="list-style-type: none"> ○ "How do long-term cardiovascular risk factors, particularly high cholesterol and high blood pressure, contribute to coronary artery blockage, and how accurately can an AI model use these factors to predict the likelihood of severe coronary artery disease?" ● Created Project Outline
December 29, 2025	<ul style="list-style-type: none"> ● Completed Project Outline ● Completed "Purpose" Section
December 30, 2025	<ul style="list-style-type: none"> ● Completed Research for "What is Cholesterol" Section ● Completed Research for "Types of Cholesterol" Section ● Completed Research for "High Cholesterol" Section
December 31, 2025	<ul style="list-style-type: none"> ● Completed Paragraph Format for "What is Cholesterol" Section ● Completed Paragraph Format for "Types of Cholesterol" Section ● Completed Paragraph Format for "High Cholesterol" Section ● Completed Research for "Causes of High Cholesterol" Section ● Completed Research for "Lowering Cholesterol" Section ● Completed Paragraph Format for "Causes of High Cholesterol" Section ● Completed Paragraph Format for "Lowering Cholesterol" Section ● Began creating the AI model through Google Colab
January 3, 2026	<ul style="list-style-type: none"> ● Completed Research for "What is Blood Pressure?" Section ● Completed Research for "Checking Blood Pressure Levels" Section ● Completed Research for "Unhealthy Blood Pressure Levels?" Section ● Completed Research for "Problems Caused by Unhealthy Blood Pressure Levels?" Section ● Completed Research for "Maintaining Normal Blood Pressure" Section ● Worked on AI model
January 4, 2026	<ul style="list-style-type: none"> ● Completed Paragraph Format for "What is Blood Pressure?" Section ● Completed Paragraph Format for "Checking Blood Pressure Levels" Section ● Completed Paragraph Format for "Unhealthy Blood Pressure

	<p>Levels?” Section</p> <ul style="list-style-type: none"> ● Completed Paragraph Format for “Problems Caused by Unhealthy Blood Pressure Levels?” Section ● Completed Paragraph Format for “Maintaining Normal Blood Pressure” Section ● Created Slideshow for Information ● Completed Research for “What are the Causes of High Blood Pressure?” Section ● Completed Research for “Risk Factors of High Blood Pressure” Section ● Completed Research for “Complications of High Blood Pressure” Section ● Completed Paragraph Format for “What are the Causes of High Blood Pressure?” Section ● Completed Paragraph Format for “Risk Factors of High Blood Pressure” Section ● Completed Paragraph Format for “Complications of High Blood Pressure” Section
<p>January 17, 2026</p>	<ul style="list-style-type: none"> ● Completed “What is the Cardiovascular System?” ● Completed “How Does the Cardiovascular System Work?” ● Completed “Cardiovascular System Issues” ● Completed “Long-Term Cardiovascular Risk Factors” ● Completed “What is Coronary Artery Disease?” ● Completed “Symptoms of Heart Attack” ● Completed “Types of Coronary Artery Disease” ● Completed “Abstract” ● Created Outline of AI/Machine Learning research ● Completed “Hypothesis” ● Completed “Independent Variable” ● Completed “Dependent Variable” ● Completed “Controlled Variable” ● Worked on AI model
<p>January 19, 2026</p>	<ul style="list-style-type: none"> ● Completed “Why are they more common today?” ● Completed “Why is it Important to Know the Likelihood of Severe Coronary Artery Disease?” ● Uploaded Information onto Canva Slides ● Created and Completed Brochure ● Edited Work ● Completed Google Colab and Uploaded Infographics to Information Doc
<p>January 20, 2026</p>	<ul style="list-style-type: none"> ● Edited Work ● Completed “Limitations of the AI Model” ● Completed “Input Risk Factors”

	<ul style="list-style-type: none"> ● Completed “Data Used for the AI Model” ● Completed “How the AI Model Works” ● Completed “Training and Testing the Model” ● Completed “Accuracy and Performance Results” ● Edited Work
January 26, 2026	<ul style="list-style-type: none"> ● Completed “Introduction” ● Completed “Why Use Artificial Intelligence in Heart Disease Predication?” ● Completed “Experimental Procedure” ● Completed “Conclusion” ● Edited Work ● Completed “Application”
January 27, 2026	<ul style="list-style-type: none"> ● Finalized project ● Started making trifold
January 28, 2026	<ul style="list-style-type: none"> ● Finished project ● Created Script
January 29, 2026	<ul style="list-style-type: none"> ● Practiced presenting with mock presentation
February 1, 2026	<ul style="list-style-type: none"> ● Final modifications to trifold before in-school science fair ● Practiced presenting
February 6, 2026	<ul style="list-style-type: none"> ● Registered for CYSF
February 27, 2026	<ul style="list-style-type: none"> ● Edited work for CYSF
February 28, 2026	<ul style="list-style-type: none"> ● Edited work for CYSF
March 2, 2026	<ul style="list-style-type: none"> ● Finalized work for CYSF and uploaded online ● Finished the updating of AI Model