

# SOSTHENE DUSHIMIMANA

**Aerospace Engineer | Statistics & Math Specialist | Writing & Voice Training Expert**  
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## Profile

Aerospace Engineering graduate with a strong foundation in statistics, mathematics, data analysis, and computational modeling (CFD, FEM, MATLAB, Python). Experienced in educational content development, tutoring, translation, and voice narration, with a track record of bridging technical accuracy and clear communication. Skilled in problem-solving, AI model training support (data annotation, solution verification, red-teaming), and academic writing, making significant contributions to cross-disciplinary projects in engineering, education, and AI.

## Relevant Experience

### **A. Engineering Intern – CAPBL Elite Techno Group | Bangalore, India | Aug – Sept 2023**

1. Designed airfoils and aircraft structural models in CATIA V5.
2. Conducted turbulent flow experiments and integrated CFD simulations for validation.
3. Supported research on EV battery parameter estimation & optimization.

### **B. Math & Statistics Content Reviewer (Freelance) | Remote | 2023 – Present**

1. Reviewed and solved mathematics and statistics problems across probability, regression, distributions, and modeling.
2. Verified AI-generated solutions, identified errors, and provided step-by-step explanations to improve accuracy.
3. Created structured datasets, problem banks, and concept maps to support AI model learning.

### **C. Language Tutor & Writing Coach (Afaan Oromo, English, French, Kinyarwanda) | Remote | Jan 2023 – Present**

1. Provided structured lessons with clear explanations of grammar, logic, and reasoning.
2. Supported learners with academic writing, editing, and technical communication.
3. Designed culturally integrated content using storytelling, argumentation, and problem-solving exercises.

### **D. Freelance Translator & Content Editor | Online | Aug 2023 – Present**

1. Translated academic, cultural, and NGO documents, ensuring contextual accuracy.
2. Edited and reviewed research reports, essays, and technical content for clarity and coherence.

### **E. AI Voice Trainer (Independent Projects) | Remote | 2023 – Present**

1. Recorded high-quality voice samples for narration, academic scripts, and storytelling.

2. Reviewed and evaluated AI-generated speech for tone, pronunciation, and clarity.
3. Delivered expressive, natural-sounding recordings with attention to detail in style and delivery.

## Research Projects

Aerodynamic Design of Seven-Hole Flow Meter | Jain University | Aug 2023 – 2025

1. Developed a seven-hole flow meter prototype in CATIA V5.
2. Conducted experimental testing in subsonic wind tunnels, comparing performance with pitot-static tubes.
3. Presented findings at GOAERO 2k23, National Aero Techno-Cultural Fest.

## Education

B.Tech, Aerospace Engineering | Jain University, Bangalore, India | Completed 2025  
Relevant Coursework: Aerodynamics, CFD, FEM, Flight Mechanics, Propulsion, Thermal Science, CAD, Statistical Mathematics for Engineers.

## Skills & Competencies

### ***Mathematics & Statistics:***

- Probability & Distributions
- Hypothesis Testing
- Regression & Modeling
- Data Analysis
- Problem Verification

### ***Engineering & Technical:***

- CATIA V5, AutoCAD, ArchiCAD
- CFD, FEM
- MATLAB, SIMULINK

### ***Writing & Communication:***

- Academic & Technical Writing
- Editing & Proofreading
- Content Development
- Translation (Afaan Oromo, English, French, Kinyarwanda)

### ***Voice Training & Narration:***

- Clear, engaging voice recording
- Script reading & editing
- Audio quality evaluation
- Pronunciation & expressiveness

## Achievements

- Winner, Annual Essay Competition (2024) – CeRSSE, Jain University & IIPA-KRB.
- Presented research at GOAERO 2k23, National Aero Techno-Cultural Fest.
- Recognized for effective tutoring, writing mentorship, and translation contributions.