

Surya Srekanth

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Textile Quality Analyst — Python Developer — AI Enthusiast

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EXPERIENCE

- **SITRA (South India Textile Research Association)** Coimbatore, TN
Lab Technician *Feb 2020 - Present*
 - **Yarn Quality Analysis & Testing** : Analyzed 100+ yarn samples weekly using Uster Classimat 5, identifying yarn faults (thick places, thin places, neps, and contamination), documenting quality reports, and supporting corrective actions to improve production consistency.
 - **Defect identification** : Analyzed yarn defects including thick places, thin places, neps, hairiness, and contamination, providing actionable feedback to support corrective actions, improve quality, and reduce material waste.
 - **Textile Quality Assurance** : Operated yarn testing systems to perform accurate quality analysis while ensuring compliance with standardized testing procedures, equipment calibration, and laboratory protocols, delivering reliable data for quality evaluation and production decisions.
- **STOLL India Pvt. Ltd.** Noida, UP
Assistant Technician *July 2018 - Nov 2018*
 - **Machine Installation & Servicing** : Successfully completed training in machine hardware assembly, Assembled and serviced flat knitting machines, ensuring operational efficiency in production environments.
 - **Mechanical Maintenance** : Performed servicing and basic maintenance of flat knitting machines in a manufacturing unit, helping to keep machine running smoothly, reduced machine downtime by 15-20% through preventive maintenance strategies.
 - **Machine Programming & Fabric Design** : Completed M1+ programming software training for flat knitting machines, Developed and modified knitting programs using M1+ software, supporting optimized fabric design.
- **Murugan Mills (NTC)** Coimbatore, TN
Project Intern *Apr 2017 - May 2017*
 - **Industrial Internship** : Completed a four-week industrial internship at Coimbatore Murugan Mills (NTC), gaining two weeks of practical exposure to spinning operations from fiber preparation through autoconer processes and two weeks of hands-on experience in weaving operations

PROJECTS

- **AI Yarn Defect Assistant**: Developed an AI-powered textile defect assistant using Python, Streamlit, and Gemini API to analyze yarn test data and generate actionable quality recommendations.
Website: ai-yarn-defect-assitant.streamlit.app
- **Personal Resume AI BOT**: Built a responsive Resume AI chatbot with Python and Streamlit, integrating Google Gemini API to deliver personalized resume reviews, skill recommendations, and career guidance.
Website: resume-ai-bot.streamlit.app

PROGRAMMING SKILLS

- **Languages**: Python, C, Java, JavaScript
- **Backend Framework**: Node.js, FastAPI, Flask, Django
- **DataBases**: Postgresql, SQL, MongoDB, Supabase
- **Frontend Framework**: React.js, Next.js, HTML, CSS, TailwindCSS
- **Other Technologies**: Git, GitHub, Docker

EDUCATION

- **Bharathidasan University of Dist. Edu.** Trichy, TN
Bachelor of Science in Computer Science; CGPA: - *2025 - 2027 (Pursuing)*
- **PSG Polytechnic College** Coimbatore, TN
Diploma in Textile Technology; CGPA: 8.95 *2015 - 2018*