

# ANKIT KUMAR SINGH

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## Education

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<b>Laxmi Public School</b> SSC (10th) – 80.4%	Jun 2016 – Jun 2018
<b>Sunbeam School Mughalsarai</b> HSC (12th) – 76.2%	Jun 2018 – Jun 2020
<b>Vellore Institute Of Technology</b> <ul style="list-style-type: none"><li>CGPA: 8.20</li><li><b>Coursework:</b> Integrated MTech with Specialization in AI &amp; ML</li></ul>	Jul 2021 – Jul 2026

## Work Experience

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<b>Full-Stack Developer (MERN) — Externship</b> <i>SmartInternz</i> <a href="#">Certificate</a> 🔗	Feb 2025 – Apr 2025
<ul style="list-style-type: none"><li>Completed a 10-week MERN stack externship with an overall score of <b>87.05%</b>, mastering HTML5, CSS3, JavaScript ES6, React.js, Node.js, Express.js, and MongoDB through 15+ structured assignments</li><li>Developed <b>StockSense</b>, a full-stack stock trading platform with JWT authentication, RESTful APIs, MongoDB, Redux, and real-time data visualization</li><li>Practiced Agile workflows and Git/GitHub version control, optimized backend performance, and deployed the application to Vercel for production</li></ul>	

## Skills

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**Technical Skills:** Java, JavaScript, Python, SQL, HTML, CSS

**Frameworks and Technologies:** React.js, Node.js, Express.js, Bootstrap

**Database and Developer Tools:** MySQL, MongoDB, Git, GitHub, Postman, Vercel, VS Code

**Areas of Interest:** Software Development, Web Development, Artificial Intelligence, Machine Learning

**Soft Skills:** Technical Writing, Responsive to Evolving Situations, Collaboration & Teamwork, Project Planning, Communication, Source Checking, Report Writing, Analytic Thinking

## Certifications

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- Applied Machine Learning in Python [Certificate](#) 🔗

## Projects

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<b>AI-Driven Optimization of 5G Resource Allocation</b> [Python, Machine Learning, HTML, CSS, Flask]	<a href="#">GitHub</a> 🔗
<ul style="list-style-type: none"><li>Built a model to predict resource allocation percentage with 87.46% accuracy; deployed using Flask</li><li>Optimized resource allocation and improved network efficiency with ML-driven inference.</li></ul>	
<b>Nova-AI Assistant</b> [Python, Groq API, Langchain, gTTS]	<a href="#">GitHub</a> 🔗
<ul style="list-style-type: none"><li>Developed an AI voice assistant MVP with real-time speech-to-text (Groq API), LLM responses (LangChain + Google GenAI), and text-to-speech (gTTS/ElevenLabs), delivered via a lightweight Gradio UI with transcription and chat history.</li><li>Implemented robust audio pipelines (PyAudio, SpeechRecognition, pygame, pydub) with strong error handling and secure environment management (python-dotenv) for reliable, seamless voice interaction.</li></ul>	
<b>Mental Health Illness Predictor</b> [Python, Machine Learning]	<a href="#">GitHub</a> 🔗
<ul style="list-style-type: none"><li>Developed a machine learning model with 88.96% precision to predict whether a working professional requires mental health treatment.</li><li>Applied data pre-processing and feature engineering to improve model performance.</li></ul>	