

ABSTRACT

Effectively Navigating today's complex tax systems can be daunting, often leading to errors, missed deductions, and lost opportunities for optimization. Our AI-powered platform addresses these challenges by automating the entire tax lifecycle—computation, regime prediction, and filing. Designed for individuals and small businesses, the system significantly simplifies tax processes, reduces the risk of errors, and ensures maximum accuracy. By eliminating manual calculations and reducing reliance on external consultants, users gain confidence and control over their tax affairs.

At the core of our solution lies advanced technology that combines Optical Character Recognition (OCR) and machine learning. Our OCR engine accurately extracts data from a wide range of financial documents, including salary slips, bank statements, and investment proofs. This data is then processed by robust ML models such as XGBoost to predict the most beneficial tax regime and compute liabilities accordingly. In addition, large language models (LLMs) like Google Gemini are leveraged to offer personalized and understandable tax-saving advice, demystify complex regulations, and support users with contextual guidance throughout the process.

The user experience is designed to be intuitive and seamless. Through a user-friendly web application, individuals can upload their financial documents in just a few clicks. The system automatically analyzes the inputs, generates a detailed tax summary, and prepares pre-filled ITR forms ready for submission. This proactive, end-to-end solution not only minimizes manual effort and compliance burden but also empowers users to make smarter financial decisions. Ultimately, our platform transforms tax filing from a stressful obligation into a strategic, optimized financial activity.