

# Essential Gemini CLI Commands for AI Automation Agency

## Core Setup Commands

### Installation & Authentication

```
# Global installation
npm install -g @google/gemini-cli

# Direct execution for testing
npx https://github.com/google-gemini/gemini-cli

# Authentication with personal Google account
gemini auth login

# Set API key for advanced usage
export GEMINI_API_KEY="your_api_key_here"
```

### Basic Configuration

```
# Initialize project with custom configuration
gemini init

# Check current configuration
gemini config show

# Set project-specific settings
gemini config set model gemini-2.5-pro
gemini config set temperature 0.7
```

## Business Automation Commands

### Document Processing Automation

```
# Process invoice data extraction
gemini "Extract invoice data from ./invoices/*.pdf and output as CSV with vendor, amount, and date."

# Analyze contracts for key terms
gemini "Review contract in ./contracts/service_agreement.pdf for renewal dates, payment terms, and liability clauses."

# Batch document classification
gemini "Classify documents in ./uploads/ by type: invoice, contract, receipt, or other. Return a list of classifications."

```

## Client Communication & Proposals

```
# Generate personalized proposals
gemini "Create proposal for [CLIENT_NAME] addressing document automation needs. Include t

# Draft follow-up emails
gemini "Write follow-up email sequence for prospect who showed interest in chatbot automa

# Create case studies
gemini "Transform this project summary into compelling case study: [PROJECT_DETAILS]. Inc
```

## Workflow Development

```
# Generate automation workflows
gemini "Design Python workflow for automating invoice processing using GCP Document AI. I

# Create API integrations
gemini "Build REST API wrapper for Vertex AI to process customer service tickets. Include

# Develop testing frameworks
gemini "Create test suite for document automation pipeline. Include unit tests, integrati
```

## Advanced Business Operations

### Market Research & Analysis

```
# Competitive analysis
gemini "Analyze automation market for SMB accounting firms. Include pain points, current

# Lead generation research
gemini "Research [COMPANY_NAME] for automation opportunities. Find decision makers, curre

# Pricing strategy development
gemini "Develop pricing strategy for document automation services. Include setup fees, mo
```

## Client Onboarding & Training

```
# Create onboarding materials
gemini "Generate client onboarding checklist for document automation project. Include tin

# Develop training content
gemini "Create user training guide for custom chatbot system. Include screenshots, step-b

# Build support documentation
gemini "Write comprehensive FAQ for automation platform covering setup, usage, troublesho
```

## Performance Monitoring & Optimization

```
# Generate analytics reports
gemini "Analyze automation performance data from ./reports/metrics.csv. Identify trends,

# Create client dashboards
gemini "Design executive dashboard showing automation ROI metrics: time saved, cost reduc

# Optimize workflows
gemini "Review current automation workflow and suggest improvements for efficiency, relia
```

## Integration with GCP Services

### Document AI Integration

```
# Setup Document AI processor
gemini "Generate Python script to configure GCP Document AI processor for invoice process

# Batch processing automation
gemini "Create workflow to process documents using Document AI, validate results, and sto
```

### Vertex AI Implementation

```
# Custom model training
gemini "Design Vertex AI training pipeline for industry-specific document classification

# Endpoint deployment
gemini "Create deployment script for Vertex AI model endpoint with auto-scaling and monit
```

## Cloud Functions & Workflows

```
# Serverless automation
gemini "Build Cloud Function to process webhook events and trigger document automation pi

# Workflow orchestration
gemini "Design Cloud Workflows definition for end-to-end automation: document ingestion,
```

## Business Development Commands

### Sales & Marketing Automation

```
# Content generation
gemini "Create blog post about SMB automation ROI with case studies, statistics, and acti

# Social media content
gemini "Generate LinkedIn post series about automation benefits for accounting firms. Inc
```

```
gemini "Design email marketing sequence for automation services. Include welcome, education, and sales emails."

```

## Proposal & Contract Generation

```
gemini "Generate standard service agreement template for automation projects. Include SOW
```

gemini "Create project scoping questionnaire for new automation clients. Cover current p1

```
gemini "Build ROI calculator spreadsheet for document automation showing time savings, cost savings, and ROI. The spreadsheet should include columns for: Task, Current Time (min), Current Cost ($), Automation Time (min), Automation Cost ($), Time Savings (min), Cost Savings ($), and ROI (%). It should also include a summary section for total time savings, total cost savings, and overall ROI. The spreadsheet should be designed for a user to input data for various tasks and compare the results of manual processing versus automation."

```

## Productivity & Efficiency Commands

## Task Automation

```
gemini "Generate daily progress report from ./project_logs/ showing completed tasks, bloc
```

```
gemini "Create client status update email from project tracking data. Include milestones,
```

```
gemini "Analyze time tracking data to identify efficiency improvements and accurate proje
```

## Knowledge Management

```
gemini "Update project documentation based on latest changes. Ensure consistency across a
```

```
gemini "Compile automation best practices from successful projects into reusable methodol
```

gemini "Extract key lessons from project retrospectives and create improvement recommenda

## Error Handling & Troubleshooting

## Common Issues Resolution

```
gemini auth refresh
```

```
geminì auth status
```

```
# Configuration reset
```

```
gemini config reset
gemini config init

# Debug mode
gemini --verbose "your command here"
gemini --debug "complex automation task"
```

## Performance Optimization

```
# Memory management
gemini --max-tokens 100000 "large document processing task"

# Concurrent processing
gemini --parallel "batch process multiple documents simultaneously"

# Rate limiting handling
gemini --retry 3 --delay 1000 "API-intensive operations"
```

## Best Practices for Business Use

1. **Always validate outputs** before delivering to clients
2. **Use version control** for automation scripts and configurations
3. **Implement logging** for all business-critical processes
4. **Test thoroughly** in staging before production deployment
5. **Document everything** for client transparency and team knowledge
6. **Monitor performance** continuously and optimize regularly
7. **Backup configurations** and maintain disaster recovery plans
8. **Stay updated** with latest Gemini CLI features and capabilities

## Security Considerations

- Never commit API keys to version control
- Use environment variables for sensitive configuration
- Implement proper access controls for client data
- Regular security audits of automation workflows
- Encrypt sensitive data at rest and in transit
- Follow GCP security best practices for all integrations